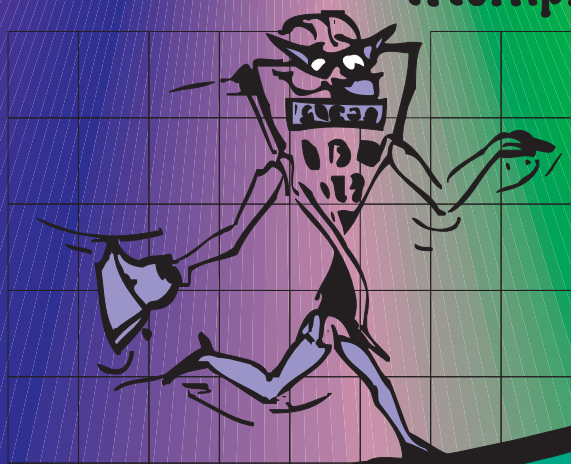
Mighty MATHS

for 9-12 year olds

book 2

Working with Numbers

Developing Skills in Addition, Subtraction, Multiplication & Division



Kim Freeman

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What is Mighty Math?

Mighty Math is a series of workbooks designed to support the Math Curriculum. Each book is a culmination of many years teaching experience by the author. By using these books, students can practise and discover the mathematical concepts and principles that are essential for success in school mathematics. The pages provide 9 - 12 year old students with both reinforcement and extension to their normal school mathematics lessons. This allows them to maintain the skills that they already have and helps to overcome any weaknesses. The pages can also complement school lessons, helping the student to develop faster in mathematics, and give them a "head start" in class.

There are 8 books in the series for 9-12 year olds. All can be downloaded for FREE.

The series covers all the strands and relevant age group levels of Mathematics in the New Zealand Curriculum: Number, Measurement, Geometry, Algebra, and Statistics. Within these strands, students will get practice at: calculating, estimating and using measuring equipment. We are sure that the work will fit into any mathematics curriculum.

If you use the sheets often, or if you just find Mighty Math really useful then you might consider a $2 donation. Send your money through PayPal: admin@mahobe.co.nz

MIGHTY MATHS for 9 - 12 year olds
Book 2: Working with Numbers
Kim Freeman

This edition is Part 2 of an 8 Part eBook series.

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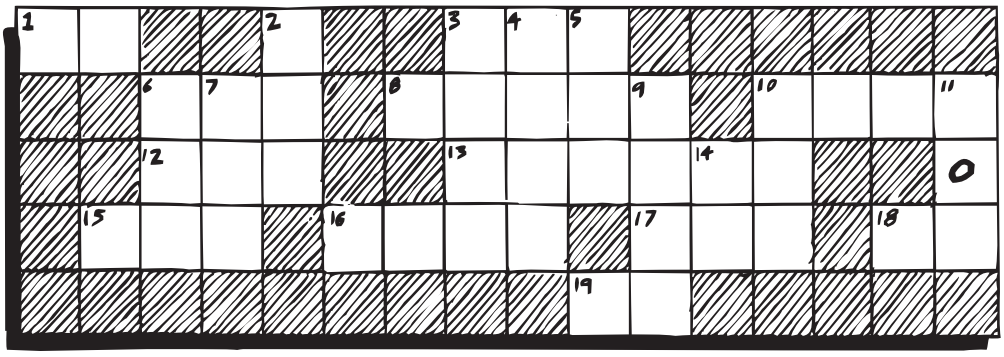
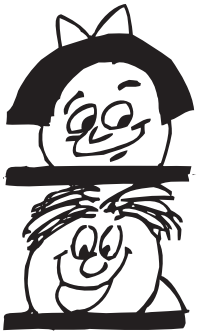
CROSS NUMBER



– FILL IN THE NUMBERS GIVEN THE CLUES ACROSS!

ACROSS – WRITE IN NUMBER

1 NINETY FOUR
2 THREE
3 EIGHT HUNDRED AND FORTY SEVEN
6 TWO HUNDRED AND SIXTY
8 TWENTY NINE THOUSAND AND THIRTY SEVEN
10 NINE THOUSAND NINE HUNDRED AND NINETY NINE
12 THREE HUNDRED AND FORTY TWO
13 FOUR HUNDRED AND SEVENTY THOUSAND, NINE HUNDRED AND TWENTY ONE
15 SIX HUNDRED AND FIFTEEN
16 FIVE THOUSAND AND NINE
17 TWO HUNDRED AND TWO
18 FIFTY EIGHT
19 NINETY NINE



DOWN – WRITE USING WORDS

2 _____
3 _____
4 _____
5 _____
6 _____
7 _____
9 _____
10 _____
11 _____
14 _____

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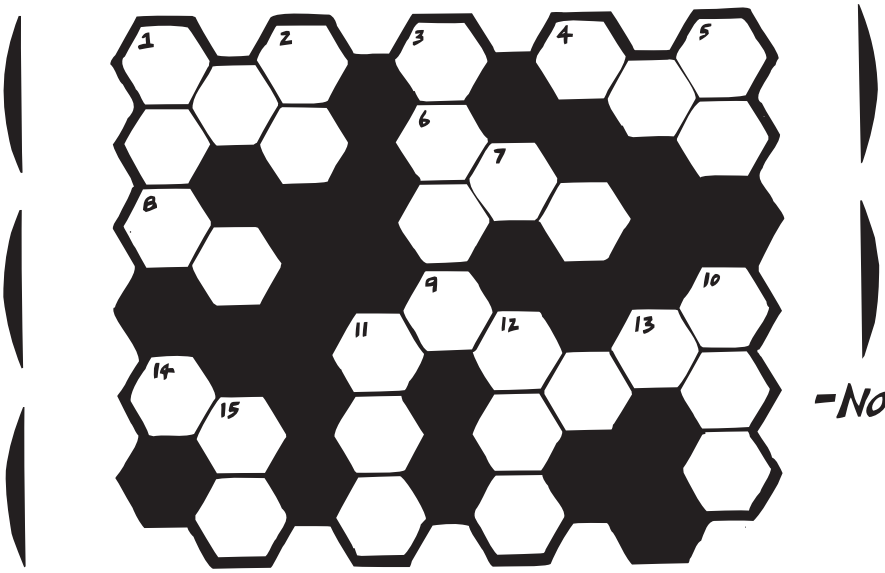
HEXANUMBER

Write these numbers into the Hexanumber.

- 1 ONE HUNDRED AND ELEVEN
- 2 TWELVE
- 3 TWO THOUSAND SIX HUNDRED AND NINETY SEVEN
- 5 THIRTY TWO
- 10 NINE HUNDRED AND SIXTY SIX
- 11 THREE HUNDRED AND ONE
- 12 FIVE HUNDRED AND SEVEN
- 15 TWENTY TWO

- 1 ONE HUNDRED AND TWO
- 4 SIX HUNDRED AND EIGHTY TWO
- 6 SIX HUNDRED AND FORTY FOUR
- 8 TEN
- 9 SEVEN HUNDRED AND FIFTY FIVE
- 13 SIXTEEN
- 14 THIRTY TWO



-NOW WRITE THE NUMBERS LEFT AS WORDS!

2 _____

5 _____

7 _____

9 _____

10 _____

Put these boxes in the right order so that the numbers go from smallest to largest.

E	N	M	I	O	A	N	T	L	O	E	G	S
15	3	12	9	2	106	17	8	1	23	55	6	24

"WHAT DID THE BEACH SAY WHEN THE TIDE CAME IN?"

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– M.C. ADDITION'S MATHS RAP!

WORDS CAN BE NUMBERS, THAT'S WHAT I'VE HEARD,
SO WRITE THE NUMBER BESIDE THESE WORDS!

EIGHTY SIX ______________

THREE HUNDRED AND FIFTY TWO ______________

SEVEN THOUSAND NINE HUNDRED AND FOURTEEN ______________

ONE MILLION ______________

FOUR POINT FIVE ______________

TWO HUNDRED AND SEVEN ______________

FIVE HUNDRED AND NINE ______________

SIX THOUSAND, TWO HUNDRED ______________

NINE THOUSAND AND SIXTY ONE ______________

EIGHT THOUSAND AND FORTY ______________

TEN THOUSAND AND TEN ______________

THREE MILLION TWO HUNDRED AND TEN THOUSAND ______________

A SUPER CHINESE MEAL

"_ _ _   _ _ _ _ _   _ _   _ _ _   _   _ _ _   _ _ _ _ _ _ !"

32 48 84   5 32 48 48 84   32 34   44 32 48   5 82 48 46   30 60 84 75 46 84

A	TWENTY TWO ADDED TO FIFTY THREE ______________
E	SIX TIMES FOURTEEN ______________
F	THE SUM OF SEVEN, EIGHT AND NINETEEN ______________
L	THE PRODUCT OF FIVE AND TWELVE ______________
N	THE PRODUCT OF TWO, FOUR AND SIX ______________
O	THE DIFFERENCE BETWEEN SEVENTY AND THIRTY EIGHT ______________
P	ONE HUNDRED AND FIFTY DIVIDED BY FIVE ______________
S	THE SUM OF THIRTEEN, THIRTY AND THREE ______________
T	THE DIFFERENCE BETWEEN FIFTY ONE AND FORTY SIX ______________
U	TWO MORE THAN FOUR TIMES TWENTY ______________
W	ONE LESS THAN NINE TIMES FIVE ______________

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ADDITION IS EASY WHEN YOU KNOW HOW AND YOU KNOW HOW!

M.C. ADDITION

5+2=	8+1=	1+3=	2+6=	2+2=
1+2=	0+4=	6+3=	0+5=	4+0=
5+5=	4+1=	1+7=	3+2=	9+2=
1+6=	1+1=	2+9=	6+6=	2+8=
0+2=	8+8=	2+7=	7+2=	4+8=
4+2=	7+1=	7+7=	5+6=	0+1=
4+6=	3+4=	0+9=	2+0=	3+6=

(DON'T FORGET TO CORRECT YOUR MISTAKES)

11+4=	16+8=	11+9=	19+19=	25+14=
14+1=	11+8=	14+7=	10+13=	25+18=
13+8=	19+4=	19+3=	14+13=	23+17=
13+4=	11+7=	17+9=	13+17=	38+18=
12+8=	12+3=	19+7=	18+13=	34+15=
16+1=	16+7=	15+3=	17+19=	36+25=
17+4=	18+3=	17+6=	15+13=	29+39=

NOW SHADE IN ANY SQUARES WITH WRONG ANSWERS!

+	5	8	9	3	2	4	11	6	7	10	5	9
2	7	10	11	5	4	6	13	8	9	12	7	11
4	6	10	15	7	6	8	15	10	11	14	9	13
9	10	17	18	12	10	13	14	15	16	19	14	18
6	2	14	15	5	8	9	17	12	13	16	11	15
2	4	9	11	4	4	5	13	8	9	12	7	15
4	11	12	13	6	6	10	15	10	11	14	6	13
6	15	14	15	9	8	10	18	24	19	16	9	15
3	10	24	7	6	5	7	6	9	5	13	12	12
7	12	15	16	10	9	11	12	13	20	17	16	16
1	6	9	10	4	3	5	14	3	5	11	6	10

DID YOU MAKE AN ERROR?!

M.C. ADDITION IS ONE GUY WHO KNOWS THE BENEFIT OF ARITHMETIC!

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LEVEL 1

2 + 3 = ___	4 + 4 = ___	8 + 2 = ___	6 + 5 = ___	7 + 2 = ___	9 + 4 = ___	7 + 6 = ___
6 + 8 = ___	9 + 5 = ___	2 + 6 = ___	4 + 3 = ___	3 + 3 = ___	5 + 8 = ___	6 + 6 = ___
4 + 9 = ___	5 + 5 = ___	2 + 8 = ___	1 + 9 = ___	8 + 8 = ___	3 + 9 = ___	4 + 1 = ___

LEVEL 2

3 2 + 2 = ___	1 7 + 1 = ___	5 0 + 4 = ___	8 2 + 2 = ___	6 4 + 3 = ___	5 4 + 6 = ___	3 2 + 7 = ___
5 4 + 2 = ___	8 7 + 3 = ___	5 6 + 5 = ___	8 3 + 6 = ___	4 9 + 7 = ___	6 6 + 7 = ___	8 5 + 7 = ___

LEVEL 3

42 + 37 = ___	46 + 23 = ___	23 + 11 = ___	12 + 12 = ___	15 + 13 = ___	18 + 11 = ___	14 + 15 = ___

14 + 13 = ____ 12 + 6 = ____ 15 + 33 = ____ 35 + 24 = ____ 17 + 21 = ____

LEVEL 4

32 20 16 = ___	27 12 20 = ___	40 21 10 = ___	37 21 21 = ___	63 12 14 = ___	32 15 12 = ___	21 16 12 = ___

30 + 12 + 15 = ____ 42 + 22 + 15 = ____ 16 + 12 + 21 = ____

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MORE ADDITION - SUM PEOPLE ARE WONDERFUL!

2	8	6	5	2	5
8	8	5	2	6	6
4	1	0	6	6	6
5	2	5	6	5	9
51	48	84	26	50	85
42	52	48	60	25	99
24	88	16	25	66	77
54	64	93	42	83	33

COMPLETE THE TABLES

+	12	20	27	31	36	49
29						
14						
35						

+	52	48	39	32	24	17
27						
51						
40						

SHADE IN THE MISTAKES TO MAKE AN EVERYDAY ITEM!

+	48	54	83	27	47	36	65	56	72	45
0	49	53	83	37	47	26	65	57	82	25
6	43	60	89	32	53	41	71	60	78	50
5	22	59	88	33	52	40	70	51	78	49
1	50	53	84	30	38	36	66	58	73	46
2	50	56	80	28	50	39	66	68	76	47
8	56	62	88	37	58	28	70	64	81	53
9	57	63	89	18	40	44	62	66	80	54
4	52	58	83	32	45	41	59	60	76	49

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MORE ADDITION

THE EXPERTS AGREE...
...YOU MUST PRACTICE!

4 + 2 = ___	7 + 2 = ___	8 + 6 = ___	3 + 5 = ___	8 + 0 = ___	6 + 3 = ___
2 + 2 = ___	5 + 6 = ___	6 + 5 = ___	5 + 5 = ___	9 + 2 = ___	6 + 4 = ___
8 + 8 = ___	6 + 8 = ___	9 + 5 = ___	4 + 9 = ___	3 + 1 = ___	4 + 1 = ___
7 + 8 = ___	4 + 9 = ___	3 + 7 = ___	5 + 3 = ___	7 + 4 = ___	8 + 2 = ___
9 + 3 = ___	7 + 0 = ___	9 + 7 = ___	3 + 8 = ___	6 + 1 = ___	5 + 8 = ___
15 + 5 = ___	18 + 2 = ___	4 + 5 = ___	12 + 6 = ___	11 + 7 = ___	15 + 3 = ___
16 + 7 = ___	11 + 6 = ___	11 + 9 = ___	19 + 6 = ___	16 + 7 = ___	14 + 8 = ___
19 + 3 = ___	15 + 8 = ___	8 + 11 = ___	18 + 0 = ___	9 + 16 = ___	13 + 4 = ___
9 + 12 = ___	18 + 7 = ___	16 + 6 = ___	15 + 7 = ___	17 + 4 = ___	13 + 9 = ___
12 + 4 = ___	15 + 8 = ___	19 + 4 = ___	17 + 5 = ___	12 + 8 = ___	18 + 7 = ___

5 5 + 3 ___	4 6 + 3 ___	7 5 + 7 ___	3 8 + 3 ___	2 7 + 6 ___	1 7 + 4 ___	9 8 + 2 ___
8 6 + 8 ___	4 3 + 2 ___	7 9 + 5 ___	6 8 + 4 ___	2 9 + 7 ___	3 5 + 8 ___	6 4 + 9 ___
2 2 5 6 + 3 ___	5 2 6 6 + 4 ___	4 8 6 8 + 3 ___	7 7 3 7 + 2 ___	5 4 1 6 + 2 ___	9 0 3 3 + 1 ___	7 8 6 6 + 9 ___
6 1 7 5 + 2 ___	9 3 7 1 + 5 ___	6 7 4 3 + 8 ___	3 0 7 8 + 5 ___	9 8 3 5 + 4 ___	8 8 7 4 + 1 ___	8 5 7 6 + 4 ___

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COMPLETE THE ADDITION BOXES

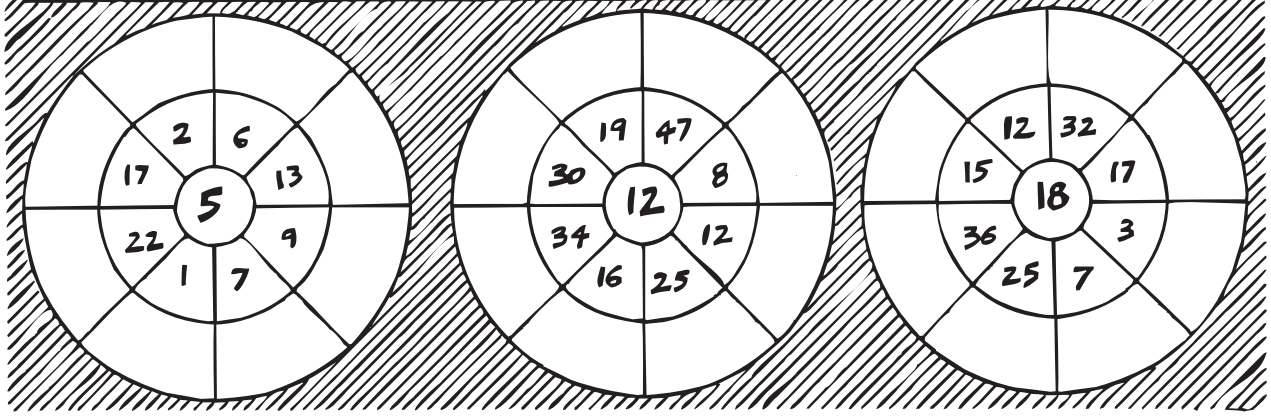
+	5	7	3	8
2				
6				
9				
4				

+	23	25	26	24
15				
16				
17				

+	4	5	7
5			
2			

+	12	33	24
16			
25			

NOW COMPLETE THE OUTSIDE RING OF EACH CIRCLE BY ADDING THE NUMBER IN THE CENTRE, TO THE NUMBER IN EACH SEGMENT!



ADD 6 TO EACH OF THESE NUMBERS

1	8	7	6	13	19	27

Find a place for each card. (You can only use each card once.)

3 6 17 2 19 5 9 14 18 16 7

□ + 4 = 11 □ + 3 = 8 13 + 1 = □ 12 + 6 = □

10 + 9 = □ □ + 6 = 12 7 + 9 = □ □ + 8 = □

□ + □ = 5

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CALCULATOR ADDITION

- CLAUDIA CALCULATOR WILL HELP YOU WITH THIS PAGE!

THE FIRST SUMS!

246 + 217 =	380 + 106 =	907 + 157 =	591 + 288 =	816 + 346 =
4123 + 2915 =	6328 + 4980 =	2479 + 756 =	8060 + 987 =	7589 + 4297 =

- COMPLETE THESE TABLES

+	119	126	232	273	317
148					
672					

+	101	143	211	215	216
419					
564					

MORE SUMS TO SOLVE!

3456 + 4651 + 1948 =	1673 + 5836 + 4883 =	3124 + 7519 + 2196 =	1543 + 3110 + 5490 =	2165 + 1972 + 2788 =

SPEED TEST

SEE IF YOU CAN GET ALL THESE CORRECT IN 10 MINUTES!

5 + 8 + 2 + 5 =	70 + 58 + 46 + 24 =	75 + 99 + 98 + 85 =	16 + 55 + 76 + 90 =	392 + 973 + 846 =	695 + 128 + 834 =
893 + 565 =	597 + 288 =	8683 + 4187 =	685 + 196 =	340 + 195 + 708 =	237 + 185 + 714 =

MY SCORE IS _____

CORRECT ANY MISTAKES

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SUBTRACTION PRACTICE

BEAT THE CLOCK!

Can you do these in less than 20 minutes?

4 - 2 = ___ 7 - 5 = ___ 11 - 3 = ___ 10 - 4 = ___ 13 - 5 = ___ 15 - 6 = ___

7 - 4 = ___ 12 - 7 = ___ 11 - 4 = ___ 6 - 2 = ___ 16 - 7 = ___ 8 - 7 = ___

10 - 8 = ___ 13 - 9 = ___ 2 - 0 = ___ 15 - 9 = ___ 17 - 9 = ___ 7 - 2 = ___

8 - 5 = ___ 10 - 3 = ___ 13 - 7 = ___ 8 - 4 = ___ 7 - 0 = ___ 13 - 6 = ___

12 - 9 = ___ 19 - 8 = ___ 14 - 2 = ___ 7 - 5 = ___ 20 - 12 = ___ 20 - 9 = ___

13 - 5 = ___ 18 - 12 = ___ 19 - 12 = ___ 2 - 2 = ___ 16 - 8 = ___ 15 - 15 = ___

7 - 6 = ___ 16 - 5 = ___ 7 - 0 = ___ 15 - 9 = ___ 14 - 7 = ___ 13 - 9 = ___

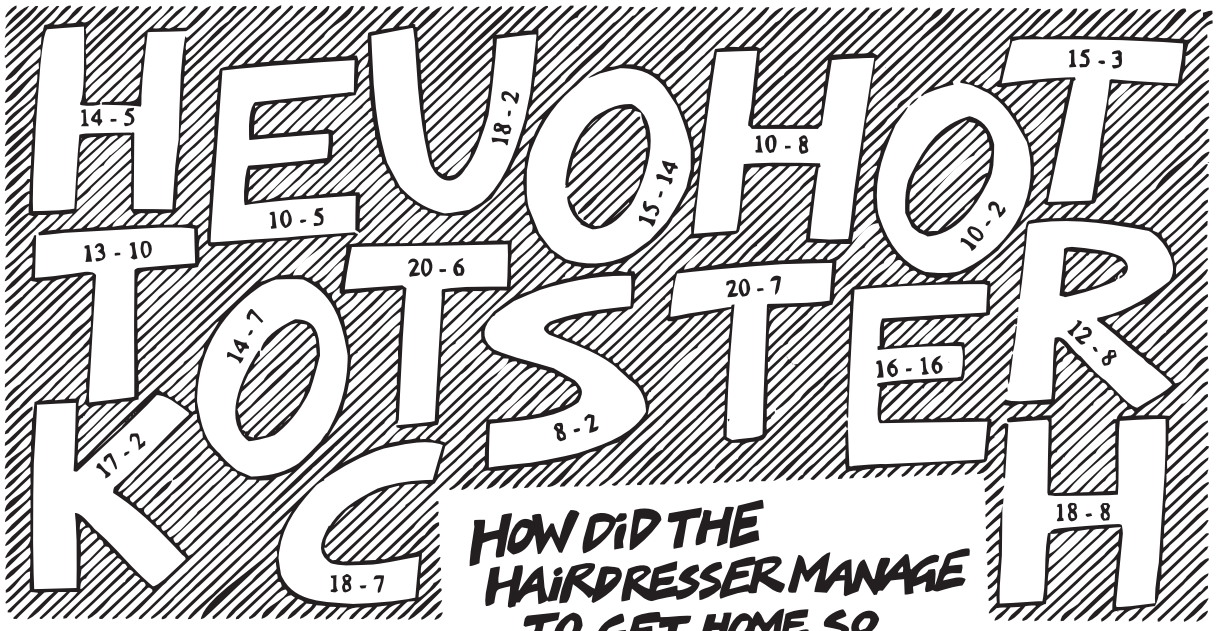
8 - 6 = ___ 8 - 1 = ___ 15 - 8 = ___ 12 - 8 = ___ 12 - 5 = ___ 10 - 5 = ___

5 - 2 = ___ 15 - 2 = ___ 10 - 1 = ___ 8 - 6 = ___ 13 - 2 = ___ 11 - 3 = ___

12 - 8 = ___ 14 - 6 = ___ 7 - 5 = ___ 7 - 1 = ___ 12 - 12 = ___ 16 - 9 = ___

TIME TAKEN _____

Put each letter above the correct answer below.



HOW DID THE HAIRDRESSER MANAGE TO GET HOME SO QUICK?

9	5		3	7	8	15		13	2	0		6	10	1	4	14					

			!
11	16	12	

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D.J. ELAINE EQUAL'S SIMPLY SENSATIONAL SUBTRACTION!

36 - 14 =	96 - 44 =	38 - 16 =	39 - 26 =
29 - 16 =	86 - 32 =	72 - 40 =	75 - 63 =
38 - 17 =	79 - 56 =	87 - 35 =	99 - 38 =
47 - 23 =	93 - 40 =	46 - 15 =	74 - 30 =
84 - 34 =	88 - 35 =	65 - 32 =	94 - 62 =
59 - 35 =	79 - 24 =	84 - 71 =	79 - 27 =
488	529	650	789
-236	-307	-420	-573
____	____	____	____
594	978	672	536
-562	-547	-341	-224
____	____	____	____

REPLACE EACH ANSWER WITH ITS LETTER IN THE CODED MESSAGE!

A 896	I 796	H 996	T 798	S 469
-222	-284	-84	-476	-154
____	____	____	____	____
R 465	V 797	P 867	E 398	L 556
-333	-402	-253	-157	-341
____	____	____	____	____
G 887	N 326	O 799		
-350	-105	-408		
____	____	____		

D.J. ELAINE EQUAL: "DOCTOR, I THINK I HAVE INSOMNIA"

DOCTOR: "

322 912 614 322 315 221 391 322 912 512 221 537

322 391 215 391 315 241 315 215 241 241 614 391 395 241 132 !"

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-FRESH SUBTRACTION FROM ELAINE!

TAKEAWAYS TASTE BEST!

43 -27	33 -18	62 -46	84 -37	92 -27	83 -56
82 -58	74 -39	62 -37	57 -49	38 -19	40 -22
32 -14	76 -38	92 -39	70 -26	84 -29	57 -48
74 -38	72 -25	81 -65	38 - 9	70 -44	81 -27

-NOW TRY THIS PUZZLE!

"WHAT DID ONE TAILPIPE SAY TO THE OTHER?"

D.J. ELAINE EQUAL

R 34 -16	I 82 -27	S 47 -39	L 88 -29	Y 72 -25
H 55 -48	U 70 -47	E 81 -14	M 37 - 9	O 45 -18
D 95 -76	B 66 -29	T 74 - 9	X 67 -28	A 80 - 8

M.C. ADDITION

"

37 27 47 55 72 28 18 67 72 59 59 47

67 39 7 72 23 8 65 67 19 !"

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CALCULATOR SUBTRACTION

— USE MISS CLAUDIA CALCULATOR TO HELP YOU SOLVE THE PROBLEMS BELOW!

START SUBTRACTING!

356 − 267 = ____	480 − 195 = ____	917 − 357 = ____	592 − 198 = ____	8463 − 3582 = ____
4123 − 2035 = ____	6238 − 3159 = ____	5305 − 4276 = ____	3918 − 1838 = ____	2345 − 587 = ____
10000 − 4567 = ____	20000 − 8765 = ____	10000 − 9312 = ____	20000 − 11843 = ____	2000 − 1635 = ____
12345 − 1234 = ____	24321 − 4235 = ____	43860 − 10872 = ____	10101010 − 10010101 = ____	

SPEED TEST

SEE IF YOU CAN GET ALL THESE CORRECT IN 10 MINUTES!

86 − 68 = ____	401 − 107 = ____	685 − 219 = ____	52 − 25 = ____	594 − 387 = ____
893 − 656 = ____	6832 − 769 = ____	5476 − 2388 = ____	2469 − 875 = ____	4616 − 3727 = ____

2547 − 365 = ____

9015 − 876 = ____

MY SCORE IS ____

CORRECT ANY MISTAKES!

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-HEAPS MORE SUBTRACTION TO PRACTICE ! (REMEMBER TO CORRECT ANY MISTAKES.)

−	6	12	8	9	10	15
2						
5						
4						
3						

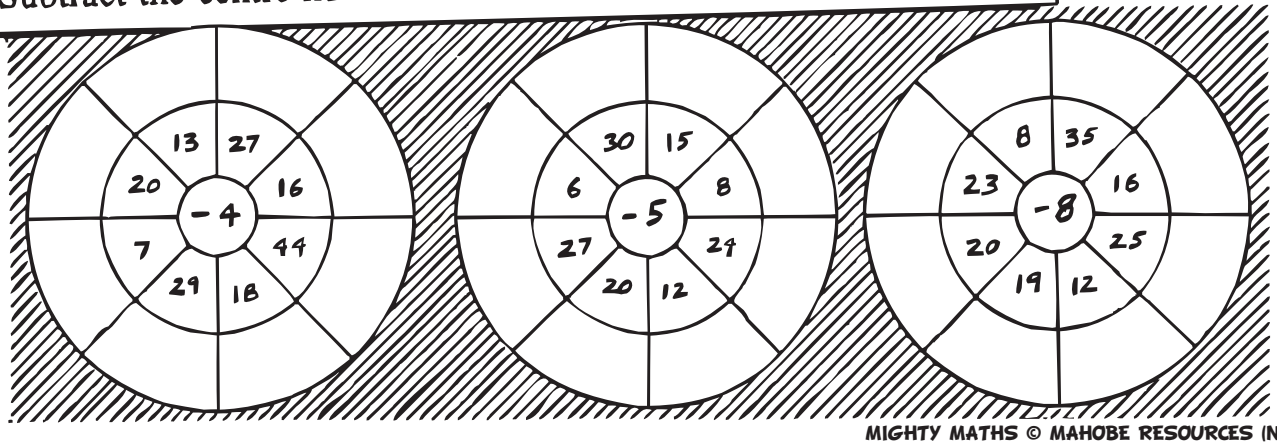
−	9	8	11	7
1				
4				
3				
2				

−	7	13	11	20	14	18
7						
1						
6						
4						

−	15	12	10	17
9				
10				
8				
6				

85 − 62 =	46 − 22 =	61 − 21 =	88 − 45 =	35 − 10 =	57 − 25 =
45 − 27 =	52 − 16 =	71 − 26 =	40 − 13 =	32 − 15 =	28 − 19 =
584 − 247 =	462 − 235 =	766 − 129 =	655 − 127 =	962 − 444 =	312 − 205 =
622 − 347 =	514 − 263 =	417 − 242 =	735 − 455 =	827 − 754 =	422 − 157 =
415 − 267 =	341 − 166 =	212 − 158 =	302 − 244 =	417 − 259 =	212 − 165 =

− Subtract the centre number from the numbers around the circle!



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– MORE SUPER SUBTRACTION
– TO SHARPEN YOUR SKILLS!

1

85	46	61	88	35	57	73	87
– 62	– 22	– 21	– 45	– 10	– 25	– 12	– 44

2

45	52	71	40	32	28	44	52
– 27	– 16	– 26	– 13	– 15	– 19	– 36	– 17

3

587	462	766	655	962	312	463	633
– 247	– 235	– 129	– 127	– 444	– 205	– 204	– 217

4

622	514	417	735	827	422	635	352
– 347	– 263	– 242	– 455	– 754	– 157	– 246	– 177

5

415	341	212	302	417	212	302	443
– 267	– 166	– 158	– 244	– 259	– 165	– 185	– 257

– NOW ANSWER THESE SUBTRACTIONS, THEN DECODE THE QUESTIONS!

R 46 – 25	**E** 515 – 268	**K** 94 – 72	**D** 66 – 40	**A** 845 – 365	**H** 755 – 216
U 407 – 121	**C** 351 – 163	**Y** 798 – 229	**O** 462 – 245	**M** 52 – 16	
N 52 – 43	**S** 634 – 263	**C** 60 – 23	**B** 654 – 288	**T** 873 – 254	**W** 71 – 21

– Why do bees have sticky hair ?

366 247 188 480 286 371 247   619 539 247 569   286 371 247   539 217 9 247 569   188 217 36 366 371

– Why do bees hum ?

619 539 247 569   26 217 9 619   22 9 217 50   619 539 247   50 217 21 26 371

ADDITION AND SUBTRACTION

1

4 + 7 =	8 + 2 =	6 + 9 =	5 + 4 =	8 + 8 =	3 + 6 =

2

15 − 3 =	18 − 6 =	14 − 2 =	12 − 9 =	15 − 7 =	17 − 8 =

3

16 + 2 =	12 + 7 =	15 + 3 =	18 + 4 =	23 + 8 =	25 + 5 =

4

15 − 4 =	17 − 2 =	18 − 6 =	22 − 7 =	25 − 8 =	33 − 5 =

5

22 + 34 =	27 + 12 =	35 + 13 =	21 + 28 =	16 + 21 =	38 + 11 =

6

47 − 13 =	28 − 15 =	26 − 11 =	49 − 17 =	33 − 22 =	35 − 24 =

7

24 + 17 =	35 + 26 =	28 + 13 =	44 + 27 =	35 + 29 =	28 + 15 =

8

24 − 18 =	34 − 26 =	31 − 15 =	24 − 17 =	32 − 28 =	40 − 23 =

9

136 + 125 =	224 + 117 =	148 + 123 =	141 + 249 =	278 + 115 =	164 + 129 =

10

153 − 116 =	192 − 159 =	234 − 107 =	211 − 103 =	251 − 136 =	222 − 115 =

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MAXWELL THE MIGHTY MULTIPLYING MOUSE RECKONS..!"MULTIPLICATION IS THE KEY TO SUCCESS!"

...AND HE'S RIGHT!

-START BY SOLVING THESE PROBLEMS.

3 × 4 =	6 × 7 =	4 × 9 =	8 × 8 =
2 × 8 =	8 × 9 =	7 × 5 =	6 × 9 =
5 × 6 =	9 × 2 =	4 × 4 =	1 × 4 =
4 × 6 =	1 × 1 =	6 × 6 =	3 × 2 =
5 × 5 =	2 × 2 =	4 × 0 =	3 × 3 =
9 × 1 =	3 × 8 =	6 × 1 =	9 × 9 =
3 × 9 =	5 × 1 =	4 × 8 =	6 × 5 =
4 × 7 =	7 × 2 =	7 × 9 =	0 × 3 =

-NOW COMPLETE THE MULTIPLE TABLES!

×8	8	16									
×10	10										
×11											

SHADE IN ALL THE MISTAKES! WHAT DO YOU GET?

×	4	6	2	9	5	8	1	7	0	3
2	6	12	9	18	12	10	2	15	0	9
6	20	36	18	54	35	48	6	44	0	22
8	30	50	16	72	35	65	8	65	8	21
4	24	24	6	36	9	32	4	28	4	12
1	5	6	5	9	8	10	1	7	1	3
3	12	18	6	27	15	24	3	21	0	9
0	4	6	2	0	0	0	0	0	0	0
5	9	30	7	40	20	45	10	45	5	10
7	30	11	15	63	35	56	10	49	7	20
9	36	54	18	81	45	72	11	63	9	30

...AND NOW MAX IS OFF TO EXHIBIT SOME OF HIS EXCITING PRODUCTS!

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MULTIPLICATION – WRITE THESE ANSWERS!

LEVEL 1

2 × 3 = ____ 4 × 4 = ____ 3 × 8 = ____ 9 × 2 = ____ 7 × 4 = ____ 3 × 7 = ____

9 × 0 = ____ 4 × 8 = ____ 7 × 2 = ____ 8 × 8 = ____ 6 × 5 = ____ 12 × 3 = ____

5 × 5 = ____ 6 × 2 = ____ 7 × 8 = ____ 8 × 5 = ____ 6 × 1 = ____ 2 × 2 = ____

8 × 4 = ____ 11 × 6 = ____ 4 × 10 = ____ 3 × 9 = ____ 2 × 10 = ____ 4 × 11 = ____

5 × 9 = ____ 6 × 8 = ____ 9 × 9 = ____ 2 × 12 = ____ 6 × 8 = ____ 5 × 3 = ____

LEVEL 2

42 × 3 = ____	11 × 5 = ____	72 × 3 = ____	44 × 2 = ____	61 × 6 = ____	82 × 4 = ____	57 × 3 = ____

18 × 2 = ____ 17 × 3 = ____ 23 × 4 = ____ 14 × 2 = ____ 35 × 2 = ____ 61 × 3 = ____

LEVEL 3

242 × 2 = ____	121 × 4 = ____	611 × 8 = ____	271 × 2 = ____	415 × 3 = ____	316 × 4 = ____
325 × 5 = ____	417 × 6 = ____	525 × 3 = ____	616 × 8 = ____	475 × 5 = ____	395 × 7 = ____

LEVEL 4

343 × 17 = ____	221 × 16 = ____	444 × 22 = ____	358 × 19 = ____	246 × 15 = ____	371 × 23 = ____	343 × 47 = ____

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WRITE THESE SUMS AS A MULTIPLICATION SENTENCE!

-THE FIRST ONE IS DONE FOR YOU!

5 + 5 + 5 = 3 × 5

8 + 8 + 8 + 8 = _____

4 + 4 = _____

9 + 9 + 9 = _____

4 + 4 + 4 + 4 + 4 = _____

2 + 2 + 2 + 2 + 2 = _____

7 + 7 + 7 + 7 + 7 + 7 + 7 = _____

6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = _____

Multiply each number by 10														
16	20	10	28	7	15	8	4	13	10	53	30	400	3142	215	0

Multiply each number by 100														
2	6	1	15	3	22	18	25	72	100	0	34	500	316	210	5167

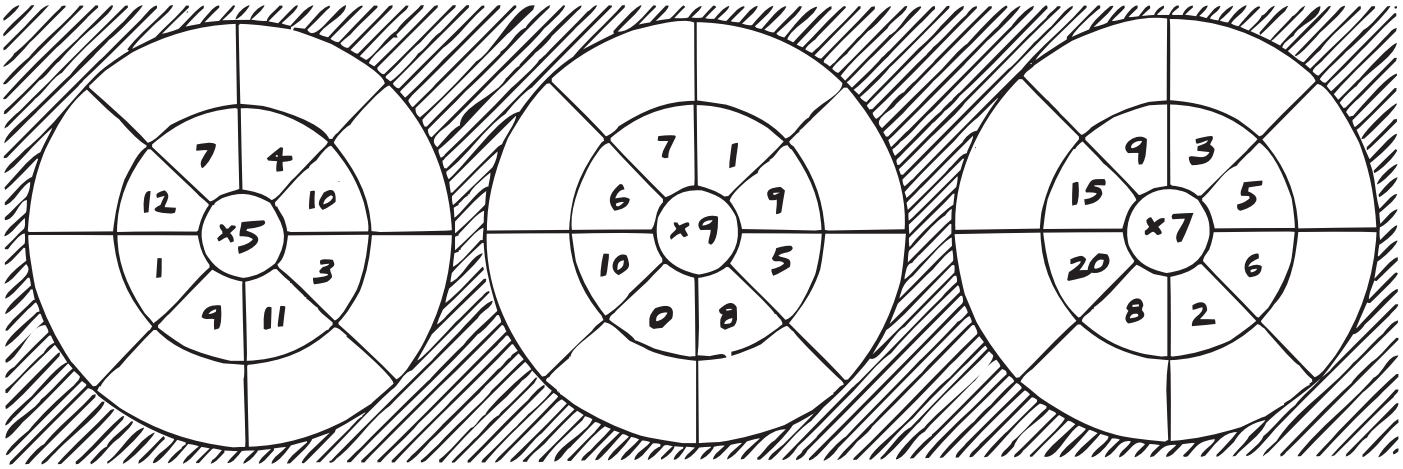
Fill out the multiplication squares

×	7	4	3	2
6				
2				
8				
1				

×	9	5	4	2
3				
7				
8				
5				

×	5	7	9
12			
15			
10			

Multiply each of the centre numbers by the numbers around the circle.



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YES, MAXWELL JUST GETS SO EXCITED AT THE PROSPECT OF MORE MULTIPLYING!!

MAXWELL THE MIGHTY MULTIPLYING MOUSE, MOVES MAJESTICALLY TO M·C. ADDITION'S MULTIPLYING MELODIES!

10 × 10 = _____ 10 × 10 × 10 = _____ 100 × 10 = _____

10 × 100 = _____ 10 × 10 × 10 × 10 = _____ 10 × 1000 = _____

100 × 100 = _____ 1000 × 100 = _____ 1000 × 1000 = _____

PRODUCT	THINK	ANSWER
70 × 40	⟶ (7 × 4) × (10 × 10) ⟶	_____
60 × 80	⟶ (_ × _) × (10 × 10) ⟶	_____
80 × 90	⟶ (_ × _) × (_ × _) ⟶	_____

NOW USE THE METHOD ABOVE ↑ TO FIND THE ANSWERS BELOW! ↓

60 × 70 _____ 90 × 30 _____

20 × 80 _____ 70 × 80 _____

50 × 90 _____ 20 × 90 _____

80 × 30 _____ 60 × 30 _____

40 × 60 _____ 50 × 60 _____

30 × 50 _____ 70 × 20 _____

60 × 60 _____ 40 × 40 _____

PRODUCT	THINK	ANSWER
20 × 600	⟶ (2 × 6) × (10 × 100) ⟶	_____
30 × 400	⟶ (3 × 4) × (_ × _) ⟶	_____
50 × 8000	⟶ (_ × _) × (_ × _) ⟶	_____

WRITE ANSWERS ONLY FOR THE PROBLEMS BELOW

30 × 500 = _____ 70 × 800 = _____ 50 × 8000 = _____

70 × 300 = _____ 80 × 500 = _____ 90 × 4000 = _____

80 × 900 = _____ 40 × 600 = _____ 400 × 400 = _____

70 × 400 = _____ 80 × 300 = _____ 700 × 600 = _____

30 × 700 = _____ 50 × 800 = _____ 600 × 4000 = _____

40 × 200 = _____ 500 × 200 = _____ 900 × 9000 = _____

90 × 200 = _____ 700 × 900 = _____

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MUCH MUCH MORE... ...MULTIPLICATION!

2 x 8 = ___	7 x 1 = ___	1 x 1 = ___	5 x 9 = ___	3 x 3 = ___	9 x 9 = ___
7 x 5 = ___	4 x 7 = ___	1 x 8 = ___	11 x 5 = ___	8 x 2 = ___	7 x 9 = ___
4 x 2 = ___	8 x 8 = ___	8 x 9 = ___	7 x 10 = ___	6 x 6 = ___	11 x 11 = ___
3 x 9 = ___	6 x 2 = ___	9 x 3 = ___	3 x 11 = ___	10 x 4 = ___	10 x 2 = ___
5 x 6 = ___	3 x 3 = ___	8 x 7 = ___	4 x 4 = ___	3 x 1 = ___	6 x 12 = ___
8 x 5 = ___	10 x 0 = ___	6 x 1 = ___	12 x 12 = ___	9 x 8 = ___	8 x 3 = ___

Use your multiplication skills to fill in the spaces.

6 x □ = 3 x 8	6 x □ = 4 x 9	4 x □ = 3 x 12
□ x 12 = 4 x 6	□ x 3 = 9 x 4	10 x 8 = 20 x □
5 x 6 = □ x 3	10 x □ = 8 x 5	□ x 2 = 5 x 4
8 x □ = 64 x 1	42 x 2 = □ x 7	4 x □ = 16 x 1

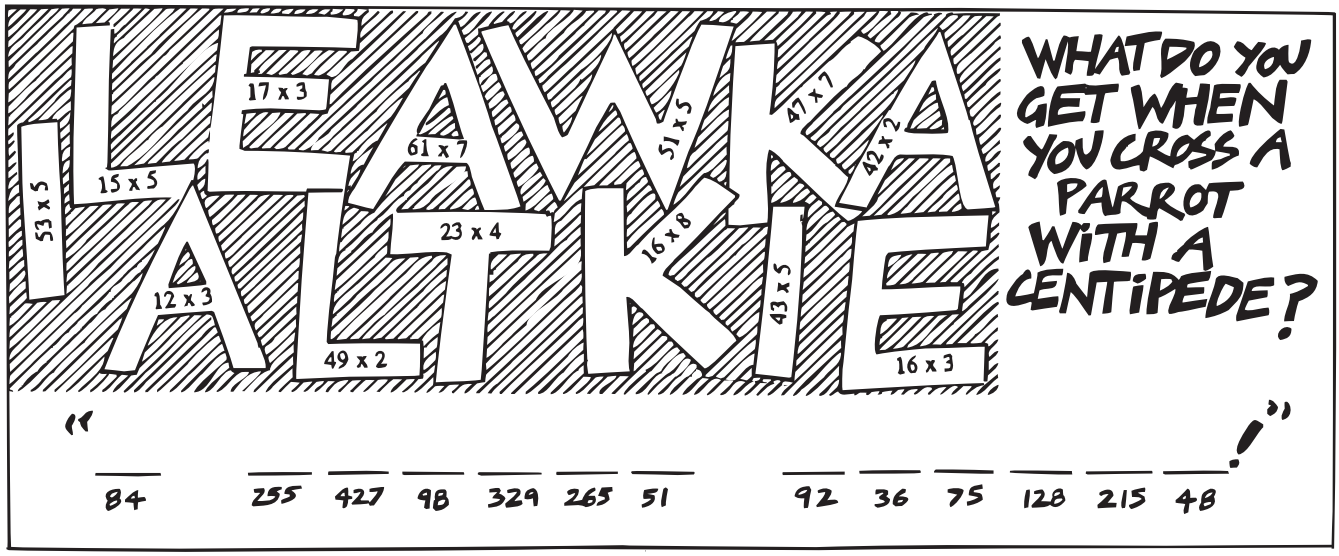
MULTIPLICATION SQUARES

x		
x	4	3
	5	2
		120

x		
x	4	1
	6	2

x		
x	10	5
	6	8

Put each letter above the correct answer below.



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MORE MULTIPLICATION - MAKE A TOP PRODUCT!

- START WITH THESE PROBLEMS!

26 × 3 =	51 × 5 =	32 × 7 =	93 × 2 =	54 × 6 =	65 × 4 =
212 × 3 =	190 × 5 =	345 × 7 =	411 × 2 =	173 × 4 =	241 × 8 =

- COMPLETE THE MULTIPLE STICKS

×20	20	40	60									
×16												
×12												

- NOW SOLVE THESE PROBLEMS!

25 × 12 =	43 × 13 =	39 × 13 =	23 × 14 =	55 × 14 =	42 × 15 =
136 × 10 =	785 × 12 =	249 × 11 =	412 × 9 =	587 × 12 =	350 × 9 =

- SHADE IN ALL THE SQUARES WITH WRONG ANSWERS!

×	5	8	9	3	2	4	11	6	7	10	5	9
2	10	16	18	6	4	8	22	12	14	20	10	18
4	20	32	36	12	8	16	44	20	28	40	20	36
9	45	72	81	27	18	36	90	54	63	90	45	81
6	35	48	54	18	15	24	66	36	48	50	20	54
2	10	12	18	8	4	8	22	12	10	20	5	18
4	20	32	32	12	8	16	44	24	30	40	20	36
6	30	50	54	12	12	24	66	36	42	40	30	54
3	9	24	27	9	5	12	33	18	21	30	10	27
7	35	56	63	21	14	28	77	42	39	70	30	63
1	5	8	9	3	2	4	11	6	5	9	2	9

"MULTIPLICATION - A SIGN OF THE _____"

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MAXWELL'S MULTIPLICATION MANIA!

- COMPLETE THE TABLES AND WORK OUT THE ANSWERS TO THE PROBLEMS!

X	7	8	3	0	4	9
8						
3						
6						
2						

(3×7)+1 = ____ (7×6)+5 = ____
(6×2)+0 = ____ (2×9)+0 = ____
(3×9)+0 = ____ (5×5)+4 = ____
(8×8)+5 = ____ (7×8)+4 = ____

(2×2)+1 = ____ (9×2)+7 = ____
(5×8)+3 = ____ (9×5)+5 = ____
(7×3)+3 = ____ (9×0)+8 = ____
(5×6)+4 = ____ (3×8)+0 = ____

X	3	9	5	7	6	4
2						
5						
7						
1						
9						

X	0	6	7	9	3	8
4						
11						
6						
12						

(4×3)+3 = ____ (8×6)+7 = ____
(4×0)+0 = ____ (8×2)+6 = ____
(4×9)+3 = ____ (6×4)+4 = ____
(9×0)+8 = ____ (3×6)+0 = ____

NOW USE YOUR MULTIPLICATION KNOWLEDGE TO FILL IN THE GAPS BELOW!

5 × 8 = 4 × ___
42 × 1 = 7 × ___
8 × ___ = 1 × 64
5 × ___ = 35 × 2
12 × 10 = ___ × 3
6 × 4 = 3 × ___
2 × 12 = 4 × ___

5 × ___ = 10 × 3
7 × ___ = 5 × 7
9 × 8 = ___ × 6
6 × 6 = 4 × ___
6 × 3 = 9 × ___
10 × ___ = 4 × 20
7 × 15 = ___ × 3

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DIVISION

WARNING - DIVISION CAN BE ADDICTIVE... BENEFICIAL... FUN...

LEVEL 1

16 ÷ 4 = ____	45 ÷ 5 = ____	16 ÷ 2 = ____	28 ÷ 4 = ____	32 ÷ 8 = ____
55 ÷ 5 = ____	63 ÷ 9 = ____	56 ÷ 7 = ____	21 ÷ 3 = ____	14 ÷ 2 = ____
60 ÷ 10 = ____	81 ÷ 9 = ____	25 ÷ 5 = ____	20 ÷ 2 = ____	6 ÷ 6 = ____
54 ÷ 6 = ____	10 ÷ 2 = ____	20 ÷ 4 = ____	63 ÷ 9 = ____	20 ÷ 10 = ____
64 ÷ 8 = ____	36 ÷ 12 = ____	44 ÷ 11 = ____	42 ÷ 7 = ____	24 ÷ 3 = ____
80 ÷ 10 = ____	35 ÷ 5 = ____	12 ÷ 4 = ____	28 ÷ 2 = ____	63 ÷ 7 = ____

LEVEL 2

303 ÷ 3 = ____	624 ÷ 6 = ____	432 ÷ 4 = ____	981 ÷ 9 = ____
672 ÷ 6 = ____	615 ÷ 5 = ____	330 ÷ 6 = ____	212 ÷ 4 = ____
916 ÷ 4 = ____	627 ÷ 3 = ____	432 ÷ 8 = ____	426 ÷ 2 = ____
225 ÷ 5 = ____	144 ÷ 4 = ____	616 ÷ 4 = ____	875 ÷ 7 = ____

LEVEL 3

1. Divide 768 by 3. _____

2. What is 420 divided by 7 ? _____

3. Russell worked for 12 hours and made $72.
   How much did he make per hour ? _____

4. Mrs Armstrong's class of 30 students raised $240 towards their class trip. How much did each student make ?

   _____

5. There are 200 students and 10 teachers.
   If you had to give each teacher an equal amount of students, how many would there be per class ? _____

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"DIANNE, DO YOU DEFINITELY FIND DIVISION EASY?" "YES!"

$15 \div 3 =$	$36 \div 9 =$	$60 \div 6 =$	$24 \div 3 =$
$20 \div 4 =$	$5 \div 1 =$	$56 \div 7 =$	$32 \div 4 =$
$30 \div 5 =$	$10 \div 10 =$	$26 \div 2 =$	$15 \div 5 =$
$16 \div 8 =$	$36 \div 3 =$	$63 \div 9 =$	$40 \div 8 =$
$18 \div 6 =$	$44 \div 4 =$	$8 \div 1 =$	$36 \div 6 =$
$28 \div 7 =$	$45 \div 5 =$	$90 \div 10 =$	$14 \div 7 =$
$14 \div 2 =$	$72 \div 8 =$	$13 \div 1 =$	$50 \div 10 =$
$40 \div 2 =$	$27 \div 9 =$		

$10\overline{)80}$	$6\overline{)48}$	$7\overline{)42}$	$5\overline{)25}$	$9\overline{)54}$
$4\overline{)16}$	$9\overline{)90}$	$10\overline{)60}$	$7\overline{)49}$	$5\overline{)100}$
$9\overline{)72}$	$6\overline{)24}$	$4\overline{)28}$	$8\overline{)56}$	$10\overline{)40}$
$6\overline{)42}$	$9\overline{)45}$	$2\overline{)22}$	$3\overline{)27}$	$9\overline{)81}$

HOW CAN WE MAKE DIVISION EASY?
DO THESE SUMS TO DECODE DIANNE'S HELPFUL HINT!

T $\frac{20}{5}$	O $\frac{66}{6}$	K $\frac{200}{10}$	Y $\frac{90}{3}$	S $12\overline{)192}$
U $\frac{24}{4}$	M $\frac{63}{7}$	I $\frac{18}{9}$	R $\frac{60}{1}$	W $11\overline{)132}$
N $\frac{30}{3}$	L $\frac{24}{8}$	P $\frac{100}{2}$	E $\frac{91}{7}$	A $12\overline{)480}$

"

$\overline{50}\ \overline{3}\ \overline{13}\ \overline{40}\ \overline{16}\ \overline{13}$ $\overline{9}\ \overline{30}$ $\overline{3}\ \overline{2}\ \overline{4}\ \overline{4}\ \overline{3}\ \overline{13}$ $\overline{50}\ \overline{40}\ \overline{3}$

$\overline{20}\ \overline{10}\ \overline{11}\ \overline{12}$ $\overline{30}\ \overline{11}\ \overline{6}\ \overline{60}$ $\overline{9}\ \overline{6}\ \overline{3}\ \overline{4}\ \overline{2}\ \overline{50}\ \overline{3}\ \overline{13}\ \overline{16}$!"

(REMEMBER TO CORRECT ANY MISTAKES)

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MORE DIVISION, WITH...

...DIVINE DIANNE THE DIVIDING DOORMOUSE! (MAX'S CRAZY COUSIN!)

8)1088	7)1505	6)1944	7)3024
5)840	6)1548	8)1880	7)1358
6)3294	8)3408	7)3255	5)3285
7)5691	5)4245	6)5706	8)4344

- COMPLETE THE DIVIDING SQUARES

÷			
	48	6	8
	8	2	
6		2	

÷			
	42	6	
	14	2	

÷			
	200	10	
	20	5	

2)1368	3)25560	4)30124	5)31210
9)371079	10)789520	11)283910	12)190872

- SOME TURTLE POWER PUZZLES!

"HOW DO YOU RECOGNISE RICH TURTLES?

28 39 32 42 34 32 45 49

27 32 23 27 36 32 37 32 35 44 25 34 32 45 28 32 49 25 !"

"WHAT IS GREEN & USES 'SHELL' TO GO 100 Km/h? "

45 28 43 49 28 36 32 31 37 45 25 27 23 49 28 25 35 45 49

Y 336÷8	K 220÷5	R 196÷4	U 258÷6
N 222÷6	I 124÷4	L 180÷5	C 280÷8
W 306÷9	H 273÷7	O 207÷9	P 189÷7
A 540÷12	T 336÷12	S 275÷11	E 352÷11

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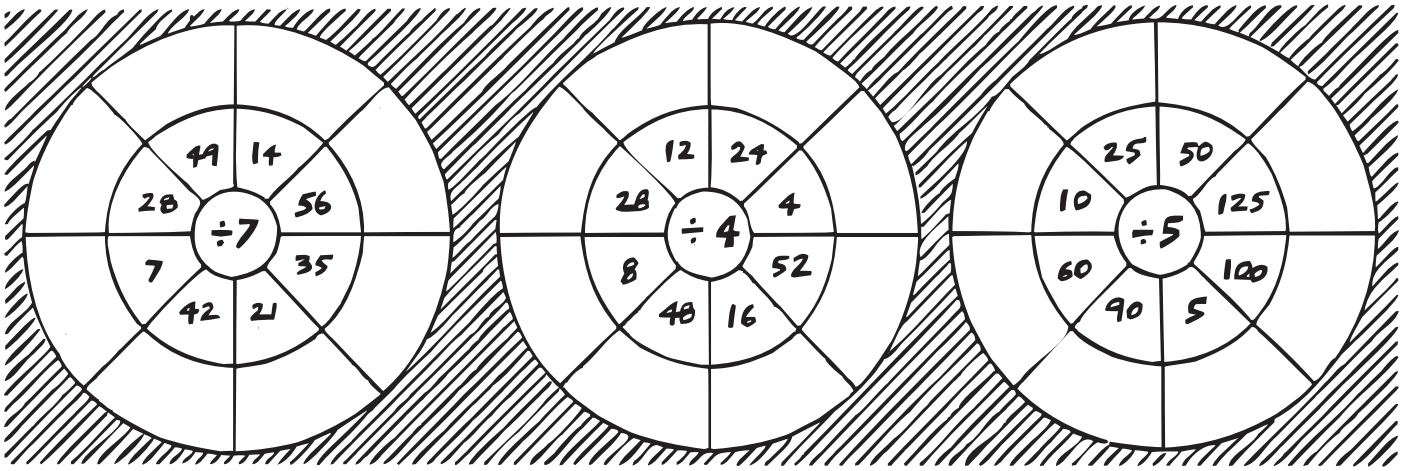
Divide each number by 10

60	40	20	10	580	1000	1600	2000	10 000	12680	157800

Divide each number by 100.

100	2000	2500	5000	200	3600	1500	53000	41600	271000	19000000

Divide each number by the one in the centre of each circle.



-WRITE THESE EQUATIONS AS A DIVISION SENTENCE!

-EXAMPLE

12 + 12 + 12 = 36	36 ÷ 3 = 12
7 + 7 = 14	
9 + 9 + 9 = 27	
5 × 3 = 15	
4 × 8 = 32	
14 + 2 = ____	÷ 2
15 + 5 = 40 ÷	

CALCULATOR DIVISION

ANOTHER JOB FOR... ...MISS CLAUDIA CALCULATOR!!

3780 ÷ 21 = ______ 6840 ÷ 19 = ______
8544 ÷ 16 = ______ 8150 ÷ 25 = ______
12684 ÷ 28 = ______ 14637 ÷ 17 = ______

- COMPLETE THESE MULTIPLE BOXES

18 × 543 = ☐	18 × 345 = ☐	18 × 262 = ☐
23 × 456 = ☐	23 × 654 = ☐	23 × 191 = ☐

- NOW DO THESE DIVISION SUMS!

18) 9774	18) 6210	18) 4716
23) 10488	23) 15042	23) 4393
34) 87414	34) 96084	34) 99756
20) 654300	30) 945600	40) 340840

- THE FINAL TEN HAVE A DECIMAL REMAINDER. READ THE FIRST DECIMAL PLACE AND WRITE THE LETTER ABOVE THE NUMBER IN THE PUZZLE!

C 352 ÷ 14	E 1571 ÷ 26	O 941 ÷ 19
A 700 ÷ 16	N 489 ÷ 15	M 1448 ÷ 24
X 811 ÷ 18	R 650 ÷ 17	T 1615 ÷ 27
S 1216 ÷ 21		

“ _ _ _ _ ÷ _ _ _ _ _ _ _ _ _ _ _ Y
3 5 9 8 8 2 4 7 8 5 6 4 4 7 9

_ _ _ _ _ _ _ _ _ _ _ , _ _ _ _ _ _ _ _ !”
9 5 3 4 7 2 4 3 4 7 6 , 6 5 8 4 0 7 1 8

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-DO-DA-CRAZY DIVISION!

÷		
÷	48	8
	6	2

÷		
÷	84	12
	21	3

÷		
÷	100	25
	10	5

Dad shared 12 apples equally among his 4 children.
How many apples did each child get ?

Mum shared 80c between 4 children.
How much did each child get ?

Uncle Ben shared 27 chocolates between 4 children.
How many did each child get ?
How many were left for Uncle Ben ?

-DIVISION SQUARES!

÷	20	40	60	80
2				
4				
5				
10				

÷	12	24	36	48
2				
3				
4				
6				

÷	50	100	200	500
10				
5				
2				
25				

Find a place for each card. (You can only use each card once.)

2 3 4 5 6 7 8 9 10

16 ÷ 2 = ☐ 49 ÷ 7 = ☐ 100 ÷ 10 = ☐ 25 ÷ 5 = ☐

36 ÷ 9 = ☐ 16 ÷ ☐ = 8 42 ÷ ☐ = 7 27 ÷ ☐ = 9

54 ÷ ☐ = 6

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MAX & Di TEAM UP TO BRING YOU MORE OF THEIR... MERITORIOUS MATHS!

$3 \times 8 =$ ___ $9 \times 2 =$ ___ $5 \times 3 =$ ___ $7 \times 6 =$ ___

$4 \times 4 =$ ___ $5 \times 5 =$ ___ $7 \times 7 =$ ___ $9 \times 9 =$ ___

14	15	16	17	18	19
× 4	× 5	× 6	× 7	× 8	× 9
___	___	___	___	___	___

37	124	235	346	132	240
× 9	× 3	× 2	× 2	× 3	× 9
___	___	___	___	___	___

$70 \div 7 =$ ___ $60 \div 3 =$ ___ $64 \div 8 =$ ___ $42 \div 2 =$ ___

$81 \div 9 =$ ___ $45 \div 5 =$ ___ $40 \div 4 =$ ___ $30 \div 6 =$ ___

12)108 12)144 12)192 12)240 12)360

2)2568 3)4725 4)65432 5)31475

S	O	Y	i	A
78	39	27	62	54
× 10	× 8	× 9	× 12	× 7
___	___	___	___	___

G $\frac{60}{15}$ H $\frac{102}{17}$ T $\frac{100}{20}$ M $\frac{175}{25}$

“__ __   __ __ __ __ __ __   __ __ __ __ __!”

4	312	7	744	4	6	5	243	7	378	5	6	780	

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MATHEMATICAL SENTENCES

-WRITE A NUMBER SENTENCE FOR EACH STATEMENT.
(THE FIRST ONE IS DONE FOR YOU!)

• The sum of 9 and 8 is 17	9 + 8 = 17
• The difference between 24 and 16 is 8	
• 45 is greater than 22	
• The product of 6 and 4 is 24	
• The sum of 8 and 12 is less than 30	
• 8 from 13 is 5	
• 12 and 9 is 21	
• Add 7 to 3 and get 10	
• 5 is less than 24	
• Subtract 3 from 27 to get 24	
• The product of 8 and 5 is equal to the sum of 36 and 4	
• 16 divided by 8 is 2	
• 27 is greater than 16	
• Multiply six eights and get forty eight	

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MORE... ...NUMBER SENTENCES!

Fill in the spaces with the correct number.

16 + 4 = ____ + 8	3 × 2 × ____ = 30	(5 × 4) + 3 = ____
(6 × 6) + ____ = 40	19 + 7 = 33 − ____	42 ÷ ____ = 9 − 3
100 − 20 = 40 × ____	10 + 10 = ____ × 10	(8 × 2) + 6 = ____
(6 × ____) + 10 = 40	(____ × 10) − 5 = 45	8 × (2 + 6) = ____
4 × ____ × 9 = 72	(12 ÷ 3) ÷ ____ = 1	12 ÷ (6 ÷ 2) = ____

Now give the correct sign. (+ - x ÷)

6 ◯ 4 = 24	12 ◯ 3 = 4	16 ◯ 4 = 2 × 2
(26 − 5) = 7 ◯ 3	8 ◯ 2 = 5 + 5	(3 × 5) ◯ 6 = 9
5 ◯ (3 + 5) = 13	10 ◯ (4 × 2) = 2	36 ◯ 4 = 7 ◯ 2

Complete the sentences by using > = or < signs

63 ☐ 9 × 7	16 + 5 ☐ 27	9 × 9 ☐ 100
50 ☐ 43 + 4	27 + 5 ☐ 32	100 − 40 ☐ 60
36 ☐ 9 × 4	2 × 13 ☐ 27	15 × 5 ☐ 30
36 ÷ 4 ☐ 20 − 12	17 + 2 ☐ 6 × 3	14 − 8 ☐ 6 + 6
15 ÷ 5 ☐ 24 ÷ 6	15 × 0 ☐ 3 × 2	10 × 90 ☐ 90 × 10

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– WHY DO ELEPHANTS HAVE SO MANY WRINKLES?

To find the answer, calculate the missing number in each problem, then put the letter above that number in the code below.

N $9 + 9 + 9 + 9 = \_\_\_ \times 9$

R $5 \times 12 = 6 \times \_\_\_$

A $(8 + 6) \div 2 = \_\_\_$

Y $(48 + 6) \div \_\_\_ = 9$

D $19 + 8 = 30 - \_\_\_$

V $3 \times 9 = 16 + \_\_\_$

E $\_\_\_ + 8 = 7 \times 3$

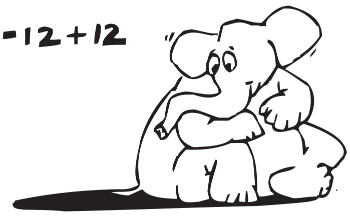
T $6 + 6 + 6 = \_\_\_ \times 2$

O $16 \div \_\_\_ = 48 \div 6$

U $3 \times 2 \times \_\_\_ = 30$

H $(8 \times 6) + \_\_\_ = 56$

I $\_\_\_ \times 2 = 12 + 12$



“ ___ ___ ___ ___   ___ ___ ___   ___ ___ ___ ___   ___ ___ ___ ___ ___
8 7 11 13   6 2 5   13 11 13 10   9 10 12 13 3

___ ___   ___ ___ ___ ___   ___ ___ ___ ?”
9 2   12 10 2 4   2 4 13

I $3 \times (6 - 1) = \_\_\_$

P $10 \times (6 - 4) = \_\_\_$

U $8 \times (1 \times 5) = \_\_\_$

C $4 \times (10 - 2) = \_\_\_$

R $5 \times (6 + 4) = \_\_\_$

O $(5 - 4) \times 3 = \_\_\_$

H $(8 + 3) \times 6 = \_\_\_$

T $3 \times (5 - 3) = \_\_\_$

S $(4 - 4) \times 5 = \_\_\_$

W $(10 - 6) \times 6 = \_\_\_$

D $6 \times (12 - 7) = \_\_\_$

L $3 \times (10 + 2) = \_\_\_$

A $(5 - 2) \times 3 = \_\_\_$

Z $4 \times (2 + 1) = \_\_\_$

W $4 \times (5 + 6) = \_\_\_$

E $(3 + 1) \times 4 = \_\_\_$

N $(2 + 3) \times 2 = \_\_\_$

___ ___ ___   ___ ___ ___ ___ ___ ___ ___
10 16 44   12 16 9 36 9 10 30

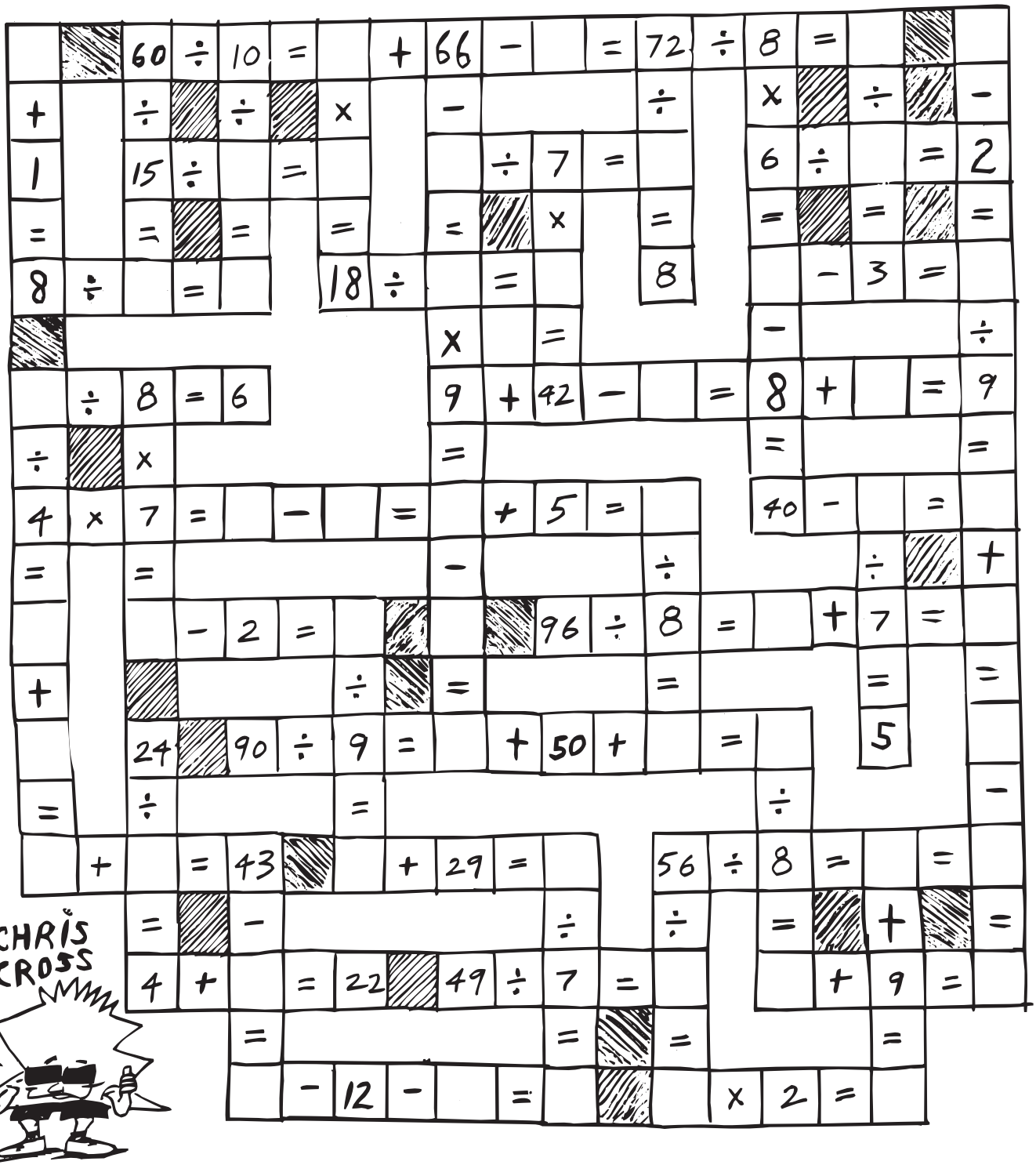
___ ___ ___ ___   ___ ___ ___
24 15 10 0   6 66 16

___ ___ ___ ___ ___   ___ ___ ___ !
24 3 50 36 30   32 40 20

PUT A +, −, × OR ÷ SIGN IN EACH □ TO MAKE THE EQUATIONS CORRECT!

5 □ (3 + 5) = 13	9 − 9 = 8 □ 8	6 ÷ 2 □ 3 = 9
10 □ (2 × 5) = 1	16 + 8 = 8 □ 3	15 × 6 □ 3 = 30
36 □ (4 × 3) = 48	8 ÷ 8 = 9 □ 9	6 × 4 □ 3 = 21
9 □ (12 − 6) = 3	36 ÷ 4 = 7 □ 2	9 + 8 □ 7 = 10
12 □ (8 ÷ 2) = 48	3 × 10 = 6 □ 5	3 × 4 □ 2 = 24

CROSS NUMBER PUZZLE



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Fill in the boxes to complete the sums.

7 + □ = 12

8 + □ = 22

□ + 9 = 18

□ + 6 = 15

3 + 29 = □

4 + 18 = □

6 + □ = 23

□ + 12 = 38

34 + 29 = □

Complete these sentences by writing
< = or > into each ○

6 + 5 ○ 9

12 + 7 ○ 25

8 + 4 ○ 9 + 2

15 + 2 ○ 10 + 7

18 + 12 ○ 10 + 10

8 + 2 ○ 82

9 ○ 4 + 7

5 ○ 2 + 1

COMPLETE THE SQUARES BY ADDING THE ROWS AND COLUMNS!!

+			
+	3	7	
	8	4	

+			
+	12	16	
	9	5	

+			
+	24	20	
	16	15	

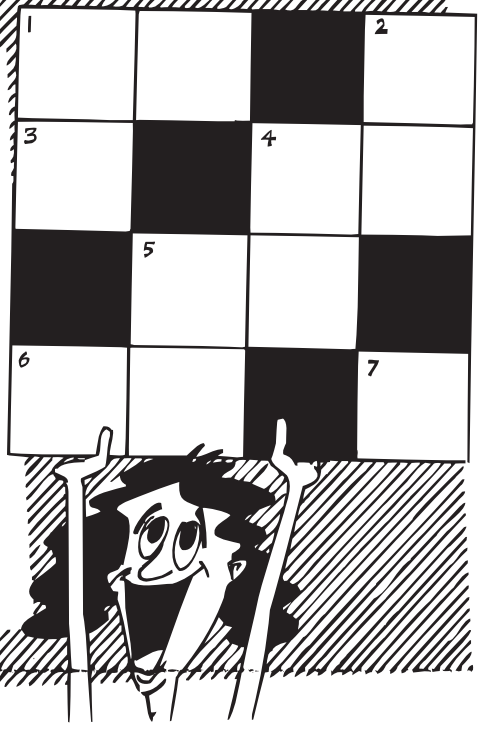
CRAZY CROSS-NUMBER

ACROSS

1. Increase 10 by 6.
3. The sum of 6 and 3.
4. Russell saves $25
   Beverly saves $11
   Graeme saves $2
   How much is saved altogether?
5. Sandy has 27 music cassettes
   Jean has 32 music cassettes
   Audrey has 25 music cassettes
   How many cassettes altogether?
6. What is 6 more than 16.

DOWN

1. 5 + 6 + 8
2. 16 + 12
4. 9 + 25
5. 24 + 25 + 33
7. 1 + 5 + 1 + 2



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Fill in the boxes to complete the sums.

17 - □ = 9 □ - 6 = 5

12 - □ = 3 □ - 7 = 2

□ - 8 = 2 □ - 5 = 3

□ - 5 = 7 □ - 4 = 8

22 - 8 = □

15 - 6 = □

24 - □ = 6

23 - □ = 5

19 - □ = 1

Complete these sentences by writing
< = or > into each ◯

16 - 8 ◯ 5

12 - 6 ◯ 3

11 - 4 ◯ 7

10 - 8 ◯ 8

15 - 12 ◯ 6

18 - 12 ◯ 6

13 - 7 ◯ 1

SUBTRACTION SQUARES

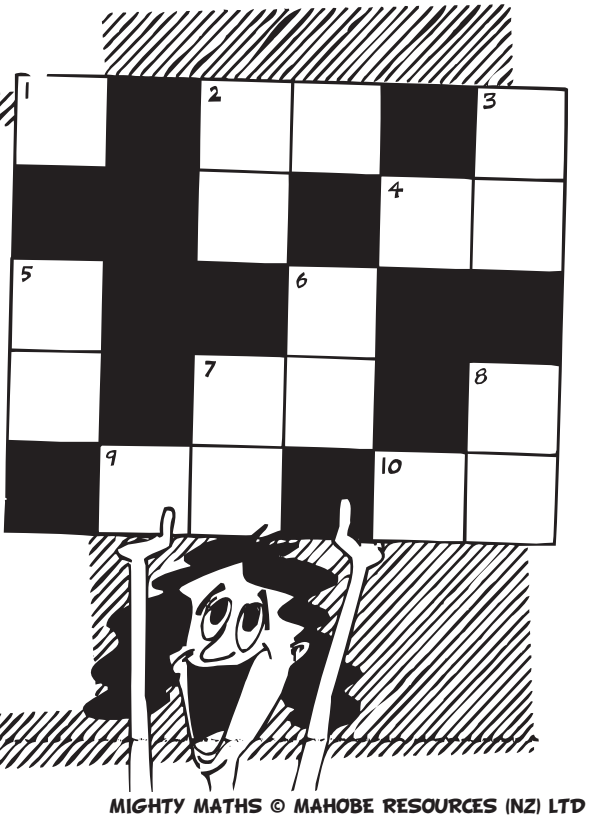
-		
6	4	
2	2	

-		
10	7	
5	2	

-		
12	8	
5	3	

-		
24	18	
9	6	

CRAZY CROSS-NUMBER



ACROSS

1. Take 12 away from 20.
2. The difference between 6 and 20.
4. Beverly has $ 100
   She spends 50
   How much does she have left?
7. Take 8 away from 20.
9. Decrease 30 by 1.
10. The difference between 40 and 6.

DOWN

2. 33 - 16
3. 100 - 10
5. 25 - 10
6. 30 - 8
7. 32 - 13
8. 34 - 20

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ARITHMETIC APTITUDE

USE YOUR NUMBER SKILLS TO FILL IN EACH GAP TO COMPLETE THE EQUATIONS BELOW!

12 + 6 = 15 + ___	(3 + 8) − 4 = ___	13 + 8 = ___ + 13
16 + 5 = 14 + ___	(7 + 9) + ___ = 20	36 − ___ = 20 + 16
15 + ___ = 9 + 6	(9 − 3) + ___ = 15	9 + 9 = ___ + 8
4 + ___ = 18 + 6	(12 + 3) − 8 = ___	6 + 45 = 40 + ___
8 + 9 = 9 + 8	(12 − 8) + 3 = ___	16 + 0 = ___ + 6

NOW WRITE × OR ÷ IN EACH △ TO MAKE TRUE SENTENCES!

6 △ 3 = 18	24 △ 2 = 48	8 △ 9 = 72
4 △ 9 = 36	70 △ 7 = 10	6 △ 6 = 1
18 △ 6 = 3	60 △ 10 = 600	36 △ 9 = 4
20 △ 5 = 100	50 △ 5 = 10	48 △ 2 = 96

COMPLETE THESE NUMBER SENTENCES

	100 − 10 = 9 × ___	(4 × 6) + ___ = 30
16 + 4 = 10 + ___	3 × 2 × ___ = 30	(3 × 7) − 8 = ___
3 × 9 = 22 + ___	(12 ÷ 6) ÷ 2 = ___	(6 × 6) + ___ = 43
26 − 8 = ___ + 8	12 ÷ (6 ÷ 2) = ___	(4 × 8) + 9 = ___
19 + 7 = 30 − ___	8 × (2 + 7) = ___	(7 × 8) − ___ = 49
48 ÷ 8 = ___ + 3	(8 × 2) + 7 = ___	(6 × ___) + 8 = 38
42 ÷ ___ = 9 − 3	20 − ___ = 8 × 2	(___ × 9) − 5 = 40

. . . AND FINALLY

×	5	10	15	20
7				
12				
20				

+	13	46	78	119
25				
52				
87				

HEY, WORK POSITIVELY!

-ORDERING YOUR MULTIPLICATION

FIRST OF ALL TRY THESE (REMEMBER BRACKETS FIRST!)

$(6 \times 2) \times 3 =$ _____	$6 \times (2 \times 3) =$ _____
$(8 \times 3) \times 2 =$ _____	$8 \times (3 \times 2) =$ _____
$(6 \times 4) \times 3 =$ _____	$6 \times (4 \times 3) =$ _____
$(10 \times 3) \times 8 =$ _____	$10 \times (3 \times 8) =$ _____
$(8 \times 6) \times 2 =$ _____	$8 \times (6 \times 2) =$ _____

Which column was the easiest to work out ? _____

When you change the order in multiplication does the answer change ? _____

-NOW TRY THESE! -CIRCLE THE EASIEST ONE TO ANSWER.

$25 \times (12 \times 4) =$ _____	$(25 \times 12) \times 4 =$ _____
$(4 \times 25) \times 12 =$ _____	$(4 \times 12) \times 25 =$ _____

A short way of multiplying is to group together certain numbers.

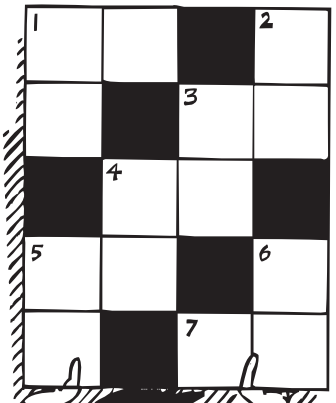
$5 \times 16 \times 2 = 10 \times 16 = 160$

$8 \times 20 \times 5 = 8 \times 100 = 800$

- NOW YOU TRY THESE!

$2 \times 16 \times 5 =$ _____	$5 \times 22 \times 2 =$ _____	$55 \times 50 \times 2 =$ _____
$5 \times 2 \times 27 =$ _____	$2 \times 50 \times 4 =$ _____	$5 \times 24 \times 2 =$ _____
$4 \times 29 \times 25 =$ _____	$25 \times 80 \times 4 =$ _____	$20 \times 16 \times 5 =$ _____
$50 \times 18 \times 2 =$ _____	$5 \times 99 \times 2 =$ _____	$17 \times 5 \times 20 =$ _____
$2 \times 67 \times 5 =$ _____	$4 \times 112 \times 25 =$ _____	$500 \times 13 \times 2 =$ _____
$98 \times 10 \times 10 =$ _____	$2 \times 67 \times 5 =$ _____	$14 \times 2 \times 500 =$ _____

CROSS-NUMBER



ACROSS

1. The product of 8 and 2
3. Multiply 5 by 9
4. 13 times 2
5. Eggs are sold in cartons containing 12 eggs. How many eggs in 6 cartons ?
7. Tennis balls are sold in half dozen packets. How many balls in 9 packets ?

DOWN

1. 4 x 3
2. 5 x 5
3. 23 x 2
4. 1 x 2 x 11
5. 2 x 13 x 3
6. 2 x 2 x 11

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THE ANSWERS

CROSS NUMBER

[1]9	4			[2]3			[3]8	[4]4	[5]7						
		[6]2	[7]6	0		[8]2	9	0	3	[9]7		[10]9	9	9	[11]9
		[12]3	4	2			[13]4	7	0	9	[14]2	1			0
	[15]6	1	5		[16]5	0	0	9		[17]2	0	2		[18]5	8
									[19]9	9					

– FILL IN THE NUMBERS GIVEN THE CLUES ACROSS!

ACROSS – WRITE IN NUMBER

1 NINETY FOUR
2 THREE
3 EIGHT HUNDRED AND FORTY SEVEN
6 TWO HUNDRED AND SIXTY
8 TWENTY NINE THOUSAND AND THIRTY SEVEN
10 NINE THOUSAND NINE HUNDRED AND NINETY NINE
12 THREE HUNDRED AND FORTY TWO
13 FOUR HUNDRED AND SEVENTY THOUSAND, NINE HUNDRED AND TWENTY ONE
15 SIX HUNDRED AND FIFTEEN
16 FIVE THOUSAND AND NINE
17 TWO HUNDRED AND TWO
18 FIFTY EIGHT
19 NINETY NINE

DOWN – WRITE USING WORDS

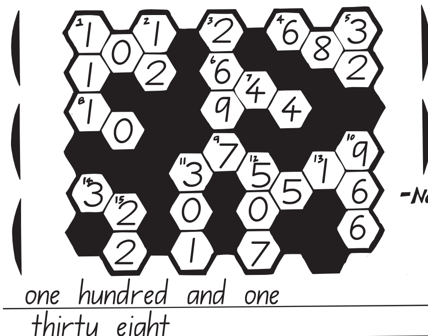
2 Three hundred and two
3 Eight thousand nine hundred and forty
4 Four thousand and seventy nine
5 Seven hundred and thirty
6 Two hundred and thirty one
7 Six hundred and forty five
9 Seven thousand nine hundred and twenty nine
10 Nine hundred and twelve
11 Nine hundred and eight
14 Twenty

– HEXANUMBER

Write these numbers into the Hexanumber.

1 ONE HUNDRED AND ELEVEN
2 TWELVE
3 TWO THOUSAND SIX HUNDRED AND NINETY SEVEN
5 THIRTY TWO
10 NINE HUNDRED AND SIXTY SIX
11 THREE HUNDRED AND ONE
12 FIVE HUNDRED AND SEVEN
15 TWENTY TWO

1 ONE HUNDRED AND TWO
4 SIX HUNDRED AND EIGHTY TWO
6 SIX HUNDRED AND FORTY FOUR
8 TEN
9 SEVEN HUNDRED AND FIFTY FIVE
13 SIXTEEN
14 THIRTY TWO



– NOW WRITE THE NUMBERS LEFT AS WORDS!

2 one hundred and one
5 thirty eight
7 forty nine
9 seventy three
10 nine thousand one hundred and fifty

Put these boxes in the right order so that the numbers go from smallest to largest!

E	N	M	I	O	A	N	T	L	O	E	G	S
15	3	12	9	2	106	17	8	1	23	55	6	24

"WHAT DID THE BEACH SAY WHEN THE TIDE CAME IN?"

L	O	N	G	T	I	M	E	N	O	S	E	A
1	2	3	6	8	9	12	15	17	23	24	55	106

M.C. ADDITION'S MATHS RAP!

WORDS CAN BE NUMBERS, THAT'S WHAT I'VE HEARD,
SO WRITE THE NUMBER BESIDE THESE WORDS!

EIGHTY SIX 86
THREE HUNDRED AND FIFTY TWO 352
SEVEN THOUSAND NINE HUNDRED AND FOURTEEN 7 914
ONE MILLION 1 000 000
FOUR POINT FIVE 4·5
TWO HUNDRED AND SEVEN 207
FIVE HUNDRED AND NINE 509
SIX THOUSAND, TWO HUNDRED 6 200
NINE THOUSAND AND SIXTY ONE 9 061
EIGHT THOUSAND AND FORTY 8 040
TEN THOUSAND AND TEN 10 010
THREE MILLION TWO HUNDRED AND TEN THOUSAND 3 210 00

A SUPER CHINESE MEAL

"ONE TONNE OF WON TUNS PLEASE!"
32 48 84 5 32 48 48 84 32 34 44 32 48 5 82 48 46 30 60 84 75 46 84

A	TWENTY TWO ADDED TO FIFTY THREE	75
E	SIX TIMES FOURTEEN	84
F	THE SUM OF SEVEN, EIGHT AND NINETEEN	34
L	THE PRODUCT OF FIVE AND TWELVE	60
N	THE PRODUCT OF TWO, FOUR AND SIX	48
O	THE DIFFERENCE BETWEEN SEVENTY AND THIRTY EIGHT	32
P	ONE HUNDRED AND FIFTY DIVIDED BY FIVE	30
S	THE SUM OF THIRTEEN, THIRTY AND THREE	46
T	THE DIFFERENCE BETWEEN FIFTY ONE AND FORTYSIX	5
U	TWO MORE THAN FOUR TIMES TWENTY	82
W	ONE LESS THAN NINE TIMES FIVE	44

ADDITION IS EASY WHEN YOU KNOW HOW AND YOU KNOW HOW!

M.C. ADDITION

5+2=7	8+1=9	1+3=4	2+6=8	2+2=4
1+2=3	0+4=4	6+3=9	0+5=5	4+0=4
5+5=10	4+1=5	1+7=8	3+2=5	9+2=11
1+6=7	1+1=2	2+9=11	6+6=12	2+8=10
0+2=2	8+8=16	2+7=9	7+2=9	4+8=12
4+2=6	7+1=8	7+7=14	5+6=11	0+1=1
4+6=10	3+4=7	0+9=9	2+0=2	3+6=9

(DON'T FORGET TO CORRECT YOUR MISTAKES)

11+4=15	16+8=24	11+9=20	19+19=38	25+14=39
14+1=15	11+8=19	14+7=21	10+13=23	25+18=43
13+8=21	19+4=23	19+3=22	14+13=27	23+17=40
13+4=17	11+7=18	17+9=26	13+17=30	38+18=56
12+8=20	12+3=15	19+7=26	18+13=31	34+15=49
16+1=17	16+7=23	15+3=18	17+19=36	36+25=61
17+4=21	18+3=21	17+6=23	15+13=28	29+39=68

NOW SHADE IN ANY SQUARES WITH WRONG ANSWERS!

DID YOU MAKE AN ERROR?!

LOOK AND SEE!

M.C. ADDITION IS ONE GUY WHO KNOWS THE BENEFIT OF ARITHMETIC!

+	5	8	9	3	2	4	11	6	7	10	5	9
2	7	10	11	5	4	6	13	8	9	12	7	11
4				7	6	8	15	10	11	14	9	13
9		17	18	12		13		15	16	19	14	18
6		14	15		8		17	12	13	16	11	15
2			11		4		13	8	9	12	7	
4		12	13		6		15	10	11	14		13
6		14	15	9	8	10				16		15
3				6	5	7		9		13		12
7	12	15	16	10	9	11		13		17		16
1	6	9	10	4	3	5				11	6	10

5 6 7 8

ADDITION

WARNING - ADDITION CAN BE ADDICTIVE... BENEFICIAL... FUN...

LEVEL 1

2 +3 = 5	4 +4 = 8	8 +2 = 10	6 +5 = 11	7 +2 = 9	9 +4 = 13	7 +6 = 13
6 +8 = 14	9 +5 = 14	2 +6 = 8	4 +3 = 7	3 +3 = 6	5 +8 = 13	6 +6 = 12
4 +9 = 13	5 +5 = 10	2 +8 = 10	1 +9 = 10	8 +8 = 16	3 +9 = 12	4 +1 = 5

LEVEL 2

3 2 +2 = 7	1 7 +1 = 9	5 0 +4 = 9	8 2 +2 = 12	6 4 +3 = 13	5 4 +6 = 15	3 2 +7 = 12
5 4 +2 = 11	8 7 +3 = 18	5 6 +5 = 16	8 3 +6 = 17	4 9 +7 = 20	6 6 +7 = 19	8 5 +7 = 20

LEVEL 3

42 +37 = 79	46 +23 = 69	23 +11 = 34	12 +12 = 24	15 +13 = 28	18 +11 = 29	14 +15 = 29

14+13= 27 12+6= 18 15+33= 48 35+24= 59 17+21= 38

LEVEL 4

32 20 16 = 68	27 12 20 = 59	40 21 10 = 71	37 21 21 = 79	63 12 14 = 89	32 15 12 = 59	21 16 12 = 49

30+12+15= 57 42+22+15= 79 16+12+21= 49

MORE ADDITION - SUM PEOPLE ARE WONDERFUL!

2	8	6	5	2	5
8	8	5	2	6	6
4	1	0	6	6	6
5	2	5	6	5	9
19	19	16	19	19	26
51	48	84	26	50	85
42	52	48	60	25	99
24	88	16	25	66	77
54	64	93	42	83	33
171	252	241	153	224	294

COMPLETE THE TABLES

+	12	20	27	31	36	49
29	41	49	56	60	65	78
14	26	34	41	45	50	63
35	47	55	62	66	71	84

+	52	48	39	32	24	17
27	79	75	66	59	51	44
51	103	99	90	83	75	68
40	92	88	79	72	64	57

SHADE IN THE MISTAKES TO MAKE AN EVERYDAY ITEM!

A CUP

+	48	59	83	27	47	36	65	56	72	45
0			83		47		65			
6		60	89		53		71		78	
5		59	88		52		70			
1			84				66		73	46
2	50	56								47
8	56	62						64		53
9	57	63								54
4	52	58						60	76	49

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MORE ADDITION

THE EXPERTS AGREE... ...YOU MUST PRACTICE!

4 + 2 = 6	7 + 2 = 9	8 + 6 = 14	3 + 5 = 8	8 + 0 = 8	6 + 3 = 9
2 + 2 = 4	5 + 6 = 11	6 + 5 = 11	5 + 5 = 10	9 + 2 = 11	6 + 4 = 10
8 + 8 = 16	6 + 8 = 14	9 + 5 = 14	4 + 9 = 13	3 + 1 = 4	4 + 1 = 5
7 + 8 = 15	4 + 9 = 13	3 + 7 = 10	5 + 3 = 8	7 + 4 = 11	8 + 2 = 10
9 + 3 = 12	7 + 0 = 7	9 + 7 = 16	3 + 8 = 11	6 + 1 = 7	5 + 8 = 13
15 + 5 = 20	18 + 2 = 20	4 + 5 = 9	12 + 6 = 18	11 + 7 = 18	15 + 3 = 18
16 + 7 = 23	11 + 6 = 17	11 + 9 = 20	19 + 6 = 25	16 + 7 = 23	14 + 8 = 22
19 + 3 = 22	15 + 8 = 23	8 + 11 = 19	18 + 0 = 18	9 + 16 = 25	13 + 4 = 17
9 + 12 = 21	18 + 7 = 25	16 + 6 = 22	15 + 7 = 22	17 + 4 = 21	13 + 9 = 22
12 + 4 = 16	15 + 9 = 24	19 + 4 = 23	17 + 5 = 22	12 + 8 = 20	18 + 7 = 25

5 5 +3 13	4 6 +3 13	7 5 +7 19	3 8 +3 14	2 7 +6 15	1 7 +4 12	9 8 +2 19
8 6 +8 22	4 3 +2 9	7 9 +5 21	6 8 +4 18	2 9 +7 18	3 5 +8 16	6 4 +9 19
2 2 5 6 +3 18	5 2 6 6 +4 23	4 8 6 8 +3 29	7 7 3 7 +2 26	5 4 1 6 +2 18	9 0 3 3 +1 16	7 8 6 6 +9 36
6 1 7 5 +2 21	9 3 7 1 +5 25	6 7 4 3 +8 28	3 0 7 8 +5 23	9 8 3 5 +4 29	8 8 7 4 +1 28	8 5 7 6 +4 30

COMPLETE THE ADDITION BOXES

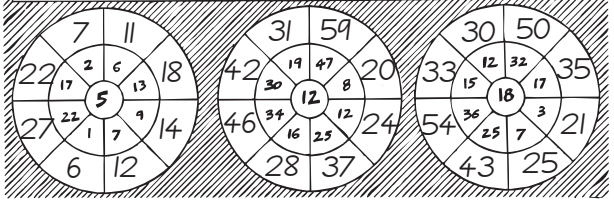
+	5	7	3	8
2	7	9	5	10
6	11	13	9	14
9	14	16	12	17
4	9	11	7	12

+	23	25	26	24
15	38	40	41	39
16	39	41	42	40
17	40	42	43	41

+	4	5	7
5	9	10	12
2	6	7	9

+	12	33	24
16	28	49	40
25	37	58	49

NOW COMPLETE THE OUTSIDE RING OF EACH CIRCLE BY ADDING THE NUMBER IN THE CENTRE, TO THE NUMBER IN EACH SEGMENT!



ADD 6 TO EACH OF THESE NUMBERS

1	8	7	6	13	19	27
7	14	13	12	19	25	33

Find a place for each card. (You can only use each card once.)

3 6 17 2 19 5 9 14 18 16 7

7 + 4 = 11 | 5 + 3 = 8 | 13 + 1 = 14 | 12 + 6 = 18

10 + 9 = 19 | 6 + 6 = 12 | 7 + 9 = 16 | 9 + 8 = 17

3 + 2 = 5

9 ↔ 10

11 ↔ 12

CALCULATOR ADDITION

- CLAUDIA CALCULATOR WILL HELP YOU WITH THIS PAGE!

THE FIRST SUMS!

246 +217 463	380 +106 486	907 +157 1064	591 +288 879	816 +346 1162
4123 +2915 7038	6328 +4980 11308	2479 +756 3235	8060 +987 9047	7589 +4297 11886

COMPLETE THESE TABLES

+	119	126	232	273	317
148	267	274	380	421	465
672	791	798	904	945	989

+	101	143	211	215	216
419	520	562	630	634	635
564	665	707	775	779	780

MORE SUMS TO SOLVE!

3456 4651 +1948 10055	1673 5836 +4883 12392	3124 7519 +2196 12839	1543 3110 +5490 10143	2165 1972 +2788 6925

SPEED TEST

SEE IF YOU CAN GET ALL THESE CORRECT IN 10 MINUTES!

5 8 2 +5 20	70 58 46 +24 198	75 99 98 +85 357	16 55 76 +90 237	392 973 +846 2211	695 128 +834 1657
893 565 1458	597 288 885	8683 4187 12870	685 196 881	340 195 708 1243	237 185 714 1136

MY SCORE IS _____ CORRECT ANY MISTAKES

SUBTRACTION PRACTICE

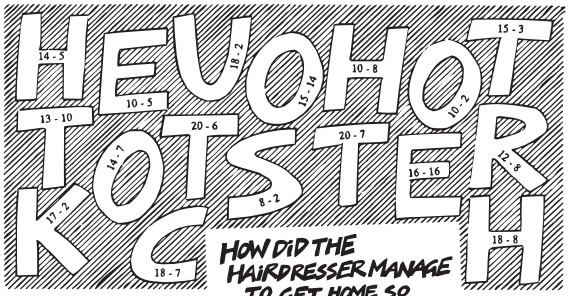
BEAT THE CLOCK!

Can you do these in less than 20 minutes?

4 - 2 = 2	7 - 5 = 2	11 - 3 = 8	10 - 4 = 6	13 - 5 = 8	15 - 6 = 9
7 - 4 = 3	12 - 7 = 5	11 - 4 = 7	6 - 2 = 4	16 - 7 = 9	8 - 7 = 1
10 - 8 = 2	13 - 9 = 4	2 - 0 = 2	15 - 9 = 6	17 - 9 = 8	7 - 2 = 5
8 - 5 = 3	10 - 3 = 7	13 - 7 = 6	8 - 4 = 4	7 - 0 = 7	13 - 6 = 7
12 - 9 = 3	19 - 8 = 11	14 - 2 = 12	7 - 5 = 2	20 - 12 = 8	20 - 9 = 11
13 - 5 = 8	18 - 12 = 6	19 - 12 = 7	2 - 2 = 0	16 - 8 = 8	15 - 15 = 0
7 - 6 = 1	16 - 5 = 11	7 - 0 = 7	15 - 9 = 6	14 - 7 = 7	13 - 9 = 4
8 - 6 = 2	8 - 1 = 7	15 - 8 = 7	12 - 8 = 4	12 - 5 = 7	10 - 5 = 5
5 - 2 = 3	15 - 2 = 13	10 - 1 = 9	8 - 6 = 2	13 - 2 = 11	11 - 3 = 8
12 - 8 = 4	14 - 6 = 8	7 - 5 = 2	7 - 1 = 6	12 - 12 = 0	16 - 9 = 7

TIME TAKEN _____

- Put each letter above the correct answer below.



HE TOOK THE SHORT CUT!

9 5 | 3 7 8 15 | 13 2 0 6 10 1 4 17 | 11 16 12

D.J. ELAINE EQUAL'S SIMPLY SENSATIONAL SUBTRACTION!

36 - 14 = 22	96 - 44 = 52	38 - 16 = 22	39 - 26 = 13
29 - 16 = 13	86 - 32 = 54	72 - 40 = 32	75 - 63 = 12
38 - 17 = 21	79 - 56 = 23	87 - 35 = 52	99 - 38 = 61
47 - 23 = 24	93 - 40 = 53	46 - 15 = 31	74 - 30 = 44
84 - 34 = 50	88 - 35 = 53	65 - 32 = 33	94 - 62 = 32
59 - 35 = 24	79 - 24 = 55	84 - 71 = 13	79 - 27 = 52

488 - 236 = 252	529 - 307 = 222	650 - 420 = 230	789 - 573 = 216
594 - 562 = 32	978 - 547 = 431	672 - 341 = 331	536 - 224 = 312

REPLACE EACH ANSWER WITH ITS LETTER IN THE CODED MESSAGE!

A 896 - 222 = 674	I 796 - 284 = 512	H 996 - 84 = 912	T 798 - 476 = 322	S 469 - 154 = 315
R 465 - 333 = 132	V 797 - 402 = 395	P 867 - 253 = 614	E 398 - 157 = 241	L 556 - 341 = 215
G 887 - 350 = 537	N 326 - 105 = 221	O 799 - 408 = 391		

D.J. ELAINE EQUAL: "DOCTOR, I THINK I HAVE INSOMNIA"

DOCTOR: "T H A T 'S N O T H I N G
322 912 614 322 315 221 391 322 912 512 221 537

T O L O S E S L E E P O V E R !"
322 391 215 391 315 241 315 215 241 241 614 391 395 241 132

FRESH SUBTRACTION FROM ELAINE!

TAKEAWAYS TASTE BEST!

43 - 27 = 16	33 - 18 = 15	62 - 46 = 16	84 - 37 = 47	92 - 27 = 65	83 - 56 = 27
82 - 58 = 24	74 - 39 = 35	62 - 37 = 25	57 - 49 = 8	38 - 19 = 19	40 - 22 = 18
32 - 14 = 18	76 - 38 = 38	92 - 39 = 53	70 - 26 = 44	84 - 29 = 55	57 - 48 = 9
74 - 38 = 36	72 - 25 = 47	81 - 65 = 16	38 - 9 = 29	70 - 44 = 26	81 - 27 = 54

NOW TRY THIS PUZZLE!

"WHAT DID ONE TAILPIPE SAY TO THE OTHER?"

D.J. ELAINE EQUAL

R 34 - 16 = 18	I 82 - 27 = 55	S 47 - 39 = 8	L 88 - 29 = 59	Y 72 - 25 = 47
H 55 - 48 = 7	U 70 - 47 = 23	E 81 - 14 = 67	M 37 - 9 = 28	O 45 - 18 = 27
D 95 - 76 = 19	B 66 - 29 = 37	T 74 - 9 = 65	X 67 - 28 = 39	A 80 - 8 = 72

"B O Y I A M R E A L L Y
37 27 47 55 72 28 18 67 72 59 59 47

E X H A U S T E D !"
67 39 7 72 23 8 65 67 19

13 14 15 16

CALCULATOR SUBTRACTION

USE MISS CLAUDIA CALCULATOR TO HELP YOU SOLVE THE PROBLEMS BELOW!

START SUBTRACTING!

356 - 267 = 89	480 - 195 = 285	917 - 357 = 560	592 - 198 = 394	8463 - 3582 = 4881
4123 - 2035 = 2088	6238 - 3159 = 3079	5305 - 4276 = 1029	3918 - 1838 = 2080	2345 - 587 = 1758
10000 - 4567 = 5433	20000 - 8765 = 11235	10000 - 9312 = 688	20000 - 11843 = 8157	2000 - 1635 = 365
12345 - 1234 = 11111	24321 - 4235 = 20086	43860 - 10872 = 32988	10101010 - 10010101 = 90909	

SPEED TEST

SEE IF YOU CAN GET ALL THESE CORRECT IN 10 MINUTES!

86 - 68 = 18	401 - 107 = 294	685 - 219 = 466	52 - 25 = 27	594 - 387 = 207
893 - 656 = 237	6832 - 769 = 6063	5476 - 2388 = 3088	2469 - 875 = 1594	4616 - 3727 = 889

2547 - 365 = 2182 9015 - 876 = 8139

MY SCORE IS 100% CORRECT ANY MISTAKES!

HEAPS MORE SUBTRACTION TO PRACTICE! (REMEMBER TO CORRECT ANY MISTAKES.)

−	6	12	8	9	10	15
2	4	10	6	7	8	13
5	1	7	3	4	5	10
4	2	8	4	5	6	11
3	3	9	5	6	7	12

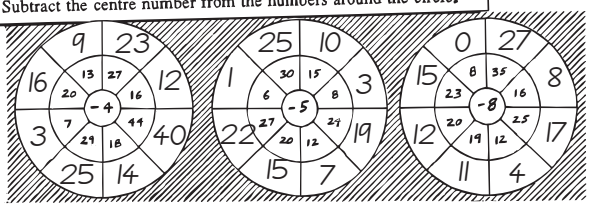
−	9	8	11	7
1	8	7	10	6
4	5	4	7	3
3	6	5	8	4
2	7	6	9	5

−	7	13	11	20	14	18
7	0	6	4	13	7	11
1	6	12	10	19	13	17
6	1	7	5	14	8	12
4	3	9	7	16	10	14

−	15	12	10	17
9	6	3	1	8
10	5	2	0	7
8	7	4	2	9
6	9	6	4	11

85 - 62 = 23	46 - 22 = 24	61 - 21 = 40	88 - 45 = 43	35 - 10 = 25	57 - 25 = 32
45 - 27 = 18	52 - 16 = 36	71 - 26 = 45	40 - 13 = 27	32 - 15 = 17	28 - 19 = 9
584 - 247 = 337	462 - 235 = 227	766 - 129 = 637	655 - 127 = 528	962 - 444 = 518	312 - 205 = 107
622 - 347 = 275	514 - 263 = 251	417 - 242 = 175	735 - 455 = 280	827 - 754 = 73	422 - 157 = 265
415 - 267 = 148	341 - 166 = 175	212 - 158 = 54	302 - 244 = 58	417 - 259 = 158	212 - 165 = 47

Subtract the centre number from the numbers around the circle!



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MORE SUPER SUBTRACTION
TO SHARPEN YOUR SKILLS!

1	85 − 62 = 23	46 − 22 = 24	61 − 21 = 40	88 − 45 = 43	35 − 10 = 25	57 − 25 = 32	73 − 12 = 61	87 − 44 = 43
2	45 − 27 = 18	52 − 16 = 36	71 − 26 = 45	40 − 13 = 27	32 − 15 = 17	28 − 19 = 9	44 − 36 = 8	52 − 17 = 35
3	587 − 247 = 340	462 − 235 = 227	766 − 129 = 637	655 − 127 = 528	962 − 444 = 518	312 − 205 = 107	463 − 204 = 259	633 − 217 = 416
4	622 − 347 = 275	514 − 263 = 251	417 − 242 = 175	735 − 455 = 280	827 − 754 = 73	422 − 157 = 265	635 − 246 = 389	352 − 177 = 175
5	415 − 267 = 148	341 − 166 = 175	212 − 158 = 54	302 − 244 = 58	417 − 259 = 158	212 − 165 = 47	302 − 185 = 117	443 − 257 = 186

NOW ANSWER THESE SUBTRACTIONS, THEN DECODE THE QUESTIONS!

R 46 − 25 = 21 E 515 − 268 = 247 K 94 − 72 = 22 D 66 − 40 = 26 A 845 − 365 = 480 H 755 − 216 = 539

V 407 − 121 = 286 C 351 − 163 = 188 Y 798 − 229 = 569 O 462 − 245 = 217 M 52 − 16 = 36

N 52 − 43 = 9 S 634 − 263 = 371 G 60 − 23 = 37 B 654 − 288 = 366 T 873 − 254 = 619 W 71 − 21 = 50

- Why do bees have sticky hair ?

BECAUSE THEY USE HONEY COMBS

366 247 188 480 286 371 247 619 539 247 569 286 371 247 539 217 9 247 569 188 217 36 346 371

- Why do bees hum ?

THEY DON'T KNOW THE WORDS

619 539 247 569 26 217 9 619 22 9 217 50 619 539 247 50 217 21 26 371

ADDITION AND SUBTRACTION

1	4 + 7 = 11	8 + 2 = 10	6 + 9 = 15	5 + 4 = 9	8 + 8 = 16	3 + 6 = 9
2	15 − 3 = 12	18 − 6 = 12	14 − 2 = 12	12 − 9 = 3	15 − 7 = 8	17 − 8 = 9
3	16 + 2 = 18	12 + 7 = 19	15 + 3 = 18	18 + 4 = 22	23 + 8 = 31	25 + 5 = 30
4	15 − 4 = 11	17 − 2 = 15	18 − 6 = 12	22 − 7 = 15	25 − 8 = 17	33 − 5 = 28
5	22 + 34 = 56	27 + 12 = 39	35 + 13 = 48	21 + 28 = 49	16 + 21 = 37	38 + 11 = 49
6	47 − 13 = 34	28 − 15 = 13	26 − 11 = 15	49 − 17 = 32	33 − 22 = 11	35 − 24 = 11
7	24 + 17 = 41	35 + 26 = 61	28 + 13 = 41	44 + 27 = 51	35 + 29 = 64	28 + 15 = 43
8	24 − 18 = 6	34 − 26 = 8	31 − 15 = 16	24 − 17 = 7	32 − 28 = 4	40 − 23 = 17
9	136 + 125 = 261	224 + 117 = 341	148 + 123 = 271	141 + 249 = 390	278 + 115 = 393	164 + 129 = 293
10	153 − 116 = 37	192 − 159 = 33	234 − 107 = 127	211 − 103 = 108	251 − 136 = 115	222 − 115 = 107

17 ↖ ↗ 18

19 ↙ ↘ 20

MAXWELL THE MIGHTY MULTIPLYING MOUSE RECKONS..."MULTIPLICATION IS THE KEY TO SUCCESS!"

... AND HE'S RIGHT!

START BY SOLVING THESE PROBLEMS.

3 × 4 = 12	6 × 7 = 42	4 × 9 = 36	8 × 8 = 64
2 × 8 = 16	8 × 9 = 72	7 × 5 = 35	6 × 9 = 54
5 × 6 = 30	9 × 2 = 18	4 × 4 = 16	1 × 4 = 4
4 × 6 = 24	1 × 1 = 1	6 × 6 = 36	3 × 2 = 6
5 × 5 = 25	2 × 2 = 4	4 × 0 = 0	3 × 3 = 9
9 × 1 = 9	3 × 8 = 24	6 × 1 = 6	9 × 9 = 81
3 × 9 = 27	5 × 1 = 5	4 × 8 = 32	6 × 5 = 30
4 × 7 = 28	7 × 2 = 14	7 × 9 = 63	0 × 3 = 0

NOW COMPLETE THE MULTIPLE TABLES!

× 8	8	16	24	32	40	48	56	64	72	80	88
× 10	10	20	30	40	50	60	70	80	90	100	110
× 11	11	22	33	44	55	66	77	88	99	110	121

SHADE IN ALL THE MISTAKES! WHAT DO YOU GET?

MULTIPLICATION IS THE KEY

TO SUCCESS

×	4	6	2	9	5	8	1	7	0	3
2		12		18			2		0	
6		36		54		48	6		0	
8			16	72			8			
4		24		36		32	4	28		12
1		6		9			1	7		3
3	12	18	6	27	15	24	3	21	0	9
0				0	0	0	0	0	0	0
5		30								
7				63	35	56		49		
9	36	54	18	81	45	72		63		

... AND NOW MAX IS OFF TO EXHIBIT SOME OF HIS EXCITING PRODUCTS!

× MULTIPLICATION
WRITE THESE ANSWERS!

LEVEL 1

2 × 3 = 6 4 × 4 = 16 3 × 8 = 24 9 × 2 = 18 7 × 4 = 28 3 × 7 = 21

9 × 0 = 0 4 × 8 = 32 7 × 2 = 14 8 × 8 = 64 6 × 5 = 30 12 × 3 = 36

5 × 5 = 25 6 × 2 = 12 7 × 8 = 56 8 × 5 = 40 6 × 1 = 6 2 × 2 = 4

8 × 4 = 32 11 × 6 = 66 4 × 10 = 40 3 × 9 = 27 2 × 10 = 20 4 × 11 = 44

5 × 9 = 45 6 × 8 = 48 9 × 9 = 81 2 × 12 = 24 6 × 8 = 48 5 × 3 = 15

LEVEL 2

42 × 3 = 126 11 × 5 = 55 72 × 3 = 216 44 × 2 = 88 61 × 6 = 366 82 × 4 = 328 57 × 3 = 171

18 × 2 = 36 17 × 3 = 51 23 × 4 = 92 14 × 2 = 28 35 × 2 = 70 61 × 3 = 183

LEVEL 3

242 × 2 = 484 121 × 4 = 484 611 × 8 = 4888 271 × 2 = 542 415 × 3 = 1245 316 × 4 = 1264

325 × 5 = 1625 417 × 6 = 2502 525 × 3 = 1575 616 × 8 = 4928 475 × 5 = 2375 395 × 7 = 2765

LEVEL 4

343 × 17 = 2401	221 × 16 = 1326	444 × 22 = 888	358 × 19 = 3222	246 × 15 = 1230	371 × 23 = 1113	343 × 47 = 2401
3430	2210	8880	3580	2460	7420	13720
5831	3536	9768	6802	3690	8533	16121

WRITE THESE SUMS AS A MULTIPLICATION SENTENCE!

-THE FIRST ONE IS DONE FOR YOU!

5+5+5 = 3x5 8+8+8+8 = 4x8 4+4 = 2x4

9+9+9 = 3x9 4+4+4+4+4 = 5x4 2+2+2+2+2 = 5x2

7+7+7+7+7+7+7 = 7x7 6+6+6+6+6+6+6+6 = 8x6

Multiply each number by 10

16	20	10	28	7	15	8	4	13	10	53	30	400	3142	215	0
160	200	100	280	70	150	80	40	130	100	53	300	4000	31420	2150	0

Multiply each number by 100

2	6	1	15	3	22	18	25	72	100	0	34	500	316	210	5167
200	600	100	1500	300	2200	1800	2500	7200	10000	0	3400	50000	31600	21000	516700

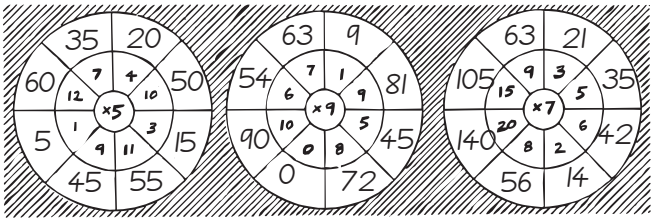
Fill out the multiplication squares

X	7	4	3	2
6	42	24	18	12
2	14	8	6	4
8	56	32	24	16
1	7	4	3	2

X	9	5	4	2
3	27	15	12	6
7	63	35	28	14
8	72	40	32	16
5	45	25	20	10

X	5	7	9
12	60	84	108
15	75	105	135
10	50	70	90

Multiply each of the centre numbers by the numbers around the circle.



YES, MAXWELL JUST GETS SO EXCITED AT THE PROSPECT OF MORE MULTIPLYING!!

MAXWELL THE MIGHTY MULTIPLYING MOUSE, MOVES MAJESTICALLY TO M.E. MOTION'S MULTIPLYING MELODIES!

10 × 10 = 100 10 × 10 × 10 = 1000 100 × 10 = 1000

10 × 100 = 1000 10 × 10 × 10 × 10 = 10000 10 × 1000 = 10,000

100 × 100 = 10,000 1000 × 100 = 100,000 1000 × 1000 = 1,000,000

PRODUCT	THINK	ANSWER
70 × 40	(7 × 4) × (10 × 10)	2800
60 × 80	(6 × 8) × (10 × 10)	4800
80 × 90	(8 × 9) × (10 × 10)	7200

NOW USE THE METHOD ABOVE ↑ TO FIND THE ANSWERS BELOW!

60 × 70 (6×7) × (10×10) = 4200

20 × 80 (2×8) × (10×10) = 1600

50 × 90 (5×9) × (10×10) = 4500

80 × 30 (8×3) × (10×10) = 2400

40 × 60 (4×6) × (10×10) = 2400

30 × 50 (3×5) × (10×10) = 1500

60 × 60 (6×6) × (10×10) = 3600

90 × 30 (9×3) × (10×10) = 2800

70 × 80 (7×8) × (10×10) = 5600

20 × 90 (2×9) × (10×10) = 1800

60 × 30 (6×3) × (10×10) = 1800

50 × 60 (5×6) × (10×10) = 3000

70 × 20 (7×2) × (10×10) = 1400

40 × 40 (4×4) × (10×10) = 1600

PRODUCT	THINK	ANSWER
20 × 600	(2 × 6) × (10 × 100)	12,000
30 × 400	(3 × 4) × (10 × 100)	12,000
50 × 8000	(5 × 8) × (10 × 1000)	400,000

WRITE ANSWERS ONLY FOR THE PROBLEMS BELOW

30 × 500 = 15,000 70 × 800 = 56,000 50 × 8000 = 400,000

70 × 300 = 21,000 80 × 500 = 40,000 90 × 4000 = 360,000

80 × 900 = 72,000 40 × 600 = 24,000 400 × 400 = 160,000

70 × 400 = 28,000 80 × 300 = 24,000 700 × 600 = 420,000

30 × 700 = 21,000 50 × 800 = 40,000 600 × 4000 = 2,400,000

40 × 200 = 8,000 500 × 200 = 100,000 900 × 9000 = 8,100,000

90 × 200 = 18,000 700 × 900 = 630,000

21 ↔ 22

23 ↔ 24

MUCH MUCH MORE... ...MULTIPLICATION!

2×8 = 16 7×1 = 7 1×1 = 1 5×9 = 45 3×3 = 9 9×9 = 81

7×5 = 35 4×7 = 28 1×8 = 8 11×5 = 55 8×2 = 16 7×9 = 63

4×2 = 8 8×8 = 64 8×9 = 72 7×10 = 70 6×6 = 36 11×11 = 121

3×9 = 27 6×2 = 12 9×3 = 27 3×11 = 33 10×4 = 40 10×2 = 20

5×6 = 30 3×3 = 9 8×7 = 56 4×4 = 16 3×1 = 3 6×12 = 72

8×5 = 40 10×0 = 0 6×1 = 6 12×12 = 144 9×8 = 72 8×3 = 24

Use your multiplication skills to fill in the spaces.

6 × [4] = 3 × 8 6 × [6] = 4 × 9 4 × [9] = 3 × 12

[2] × 12 = 4 × 6 [12] × 3 = 9 × 4 10 × 8 = 20 × [4]

5 × 6 = [10] × 3 10 × [4] = 8 × 5 [10] × 2 = 5 × 4

8 × [8] = 64 × 1 42 × 2 = [12] × 7 4 × [4] = 16 × 1

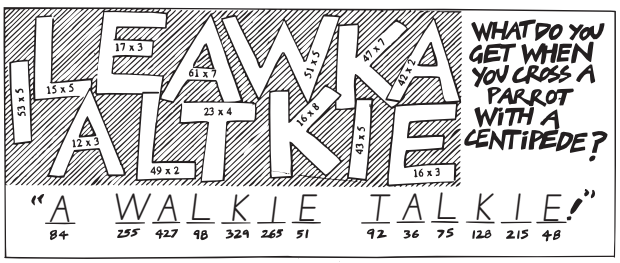
MULTIPLICATION SQUARES

×		
4	3	12
5	2	10
20	6	120

×		
4	1	4
6	2	12
24	2	48

×		
10	5	50
6	8	48
60	40	2400

Put each letter above the correct answer below.



WHAT DO YOU GET WHEN YOU CROSS A PARROT WITH A CENTIPEDE?

"A WALKIE TALKIE!"

A	W	A	L	K	I	E	T	A	L	K	I	E
84	255	427	98	329	265	51	92	36	75	128	215	48

MORE MULTIPLICATION - MAKE A TOP PRODUCT!

START WITH THESE PROBLEMS!

26 × 3 = 78	51 × 5 = 255	32 × 7 = 224	93 × 2 = 186	54 × 6 = 324	65 × 4 = 260
212 × 3 = 636	190 × 5 = 950	345 × 7 = 2415	411 × 2 = 822	173 × 4 = 692	241 × 8 = 1928

COMPLETE THE MULTIPLE STICKS

×20	20	40	60	80	100	120	140	160	180	200	220	240
×16	16	32	48	64	80	96	112	128	144	160	176	192
×12	12	24	36	48	60	72	84	96	108	120	132	144

NOW SOLVE THESE PROBLEMS!

25 × 12 = 300	43 × 13 = 559	39 × 13 = 507	23 × 14 = 322	55 × 14 = 770	42 × 15 = 630
136 × 10 = 1360	785 × 12 = 9420	249 × 11 = 2739	412 × 9 = 3708	587 × 12 = 7044	350 × 9 = 3150

- SHADE IN ALL THE SQUARES WITH WRONG ANSWERS!

"MULTIPLICATION - A SIGN OF THE TIMES (×'S)"

×	5	8	9	3	2	4	11	6	7	10	5	9
2	10	16	18	6	4	8	22	12	14	20	10	18
4	20	32	36	12	8	16	44		28	40	20	36
9	45	72	81	27	18	36		54	63	90	45	81
6		48	54	18		24	66	36				54
2	10		18		4	8	22	12		20	5	18
4	20	32		12	8	16	44	24		40	20	36
6	30		54		12	24	60	36	42		30	54
3		24	27	9		12	33	18	21	30		27
7	35	56	63	21	14	28	77	42		70		63
1	5	8	9	3	2	4	11	6				9

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MAXWELL'S MULTIPLICATION MANIA!

- COMPLETE THE TABLES AND WORK OUT THE ANSWERS TO THE PROBLEMS!

X	7	8	3	0	4	9
8	56	64	24	0	32	72
3	21	24	9	0	12	27
6	42	48	18	0	24	54
2	14	16	6	0	8	18

(3×7)+1 = 22 (7×6)+5 = 47
(6×2)+0 = 12 (2×9)+0 = 18
(3×9)+0 = 27 (5×5)+4 = 29
(8×8)+5 = 69 (7×8)+4 = 60

X	3	9	5	7	6	4
2	6	18	10	14	12	8
5	15	45	25	35	30	20
7	21	63	35	49	42	28
1	3	9	5	7	6	4
9	27	81	45	63	54	36

(2×2)+1 = 5 (9×2)+7 = 25
(5×8)+3 = 43 (9×5)+5 = 50
(7×3)+3 = 24 (9×0)+8 = 8
(5×6)+4 = 34 (3×8)+0 = 24

X	0	6	7	9	3	8
4	0	24	28	36	12	32
11	0	66	77	99	33	88
6	0	36	42	54	18	48
12	0	72	84	108	36	96

(4×3)+3 = 15 (8×6)+7 = 55
(4×0)+0 = 0 (8×2)+6 = 22
(4×9)+3 = 39 (6×4)+4 = 28
(9×0)+8 = 8 (3×6)+0 = 18

NOW USE YOUR MULTIPLICATION KNOWLEDGE TO FILL IN THE GAPS BELOW!

5 × 8 = 4 × 10
42 × 1 = 7 × 6
8 × 8 = 1 × 64
5 × 14 = 35 × 2
12 × 10 = 40 × 3
6 × 4 = 3 × 8
2 × 12 = 4 × 6

5 × 6 = 10 × 3
7 × 5 = 5 × 7
9 × 8 = 12 × 6
6 × 6 = 4 × 9
6 × 3 = 9 × 2
10 × 8 = 4 × 20
7 × 15 = 35 × 3

÷ DIVISION

WARNING - DIVISION CAN BE ADDICTIVE... BENEFICIAL... FUN...

LEVEL 1

16 ÷ 4 = 4 45 ÷ 5 = 9 16 ÷ 2 = 8 28 ÷ 4 = 7 32 ÷ 8 = 4
55 ÷ 5 = 11 63 ÷ 9 = 7 56 ÷ 7 = 8 21 ÷ 3 = 7 14 ÷ 2 = 7
60 ÷ 10 = 6 81 ÷ 9 = 9 25 ÷ 5 = 5 20 ÷ 2 = 10 6 ÷ 6 = 1
54 ÷ 6 = 9 10 ÷ 2 = 5 20 ÷ 4 = 5 63 ÷ 9 = 7 20 ÷ 10 = 2
64 ÷ 8 = 8 36 ÷ 12 = 3 44 ÷ 11 = 4 42 ÷ 7 = 6 24 ÷ 3 = 8
80 ÷ 10 = 8 35 ÷ 5 = 7 12 ÷ 4 = 3 28 ÷ 2 = 14 63 ÷ 7 = 9

LEVEL 2

303 ÷ 3 = 101 624 ÷ 6 = 104 432 ÷ 4 = 108 981 ÷ 9 = 109
672 ÷ 6 = 112 615 ÷ 5 = 123 330 ÷ 6 = 55 212 ÷ 4 = 53
916 ÷ 4 = 229 627 ÷ 3 = 209 432 ÷ 8 = 54 426 ÷ 2 = 213
225 ÷ 5 = 45 144 ÷ 4 = 36 616 ÷ 4 = 154 875 ÷ 7 = 125

LEVEL 3

1. Divide 768 by 3. 256
2. What is 420 divided by 7 ? 60
3. Russell worked for 12 hours and made $72. How much did he make per hour ? $6
4. Mrs Armstrong's class of 30 students raised $240 towards their class trip. How much did each student make ? $8
5. There are 200 students and 10 teachers. If you had to give each teacher an equal amount of students, how many would there be per class ? 20 students

25 ↔ 26
27 ↔ 28

"DIANNE, DO YOU DEFINITELY FIND DIVISION EASY?" "YES!"

15 ÷ 3 = 5 36 ÷ 9 = 4 60 ÷ 6 = 10 24 ÷ 3 = 8
20 ÷ 4 = 5 5 ÷ 1 = 5 56 ÷ 7 = 8 32 ÷ 4 = 8
30 ÷ 5 = 6 10 ÷ 10 = 1 26 ÷ 2 = 13 15 ÷ 5 = 3
16 ÷ 8 = 2 36 ÷ 3 = 12 63 ÷ 9 = 7 40 ÷ 8 = 5
18 ÷ 6 = 3 44 ÷ 4 = 11 8 ÷ 1 = 8 36 ÷ 6 = 6
28 ÷ 7 = 4 45 ÷ 5 = 9 90 ÷ 10 = 9 14 ÷ 7 = 2
14 ÷ 2 = 7 72 ÷ 8 = 9 13 ÷ 1 = 13 50 ÷ 10 = 5
40 ÷ 2 = 20 27 ÷ 9 = 3

(REMEMBER TO CORRECT ANY MISTAKES)

8) 80 8) 48 6) 42 5) 25 6) 54
4) 16 10) 90 10) 60 7) 49 20) 100
9) 72 4) 24 4) 28 7) 56 4) 40
6) 42 9) 45 11) 22 9) 27 9) 81

HOW CAN WE MAKE DIVISION EASY? DO THESE SUMS TO DECODE DIANNE'S HELPFUL HINT!

T 20/5 = 4 O 66/6 = 11 K 200/10 = 20 Y 90/3 = 30 S 16) 192

V 24/4 = 6 M 63/7 = 9 I 18/9 = 2 R 60/1 = 60 W 11) 132

N 30/3 = 10 L 24/8 = 3 P 100/2 = 50 E 91/7 = 13 A 12) 480

"P L E A S E M Y L I T T L E P A L
50 3 13 40 16 13 9 30 3 2 4 4 3 13 50 40 3

K N O W Y O U R M U L T I P L E S !"
20 10 11 12 30 11 6 60 9 6 3 4 2 50 3 13 16

MORE DIVISION, WITH... ... DIVINE DIANNE THE DIVIDING DOORMOUSE!

8) 1088 7) 1505 6) 1944 7) 3024
5) 840 6) 1548 8) 1880 7) 1358
6) 3294 8) 3408 7) 3255 5) 3285
7) 5691 5) 4245 6) 5706 8) 4344

- COMPLETE THE DIVIDING SQUARES

÷	48	6	8
8	2	4	
6	3	2	

÷	42	6	7
14	2	7	
3	3	1	

÷	200	10	20
20	5	4	
10	2	5	

2) 1368 3) 25560 4) 30124 5) 31210
9) 371079 10) 789520 11) 283910 12) 190872

- SOME TURTLE POWER PUZZLES!

"HOW DO YOU RECOGNISE RICH TURTLES?
"T H E Y W E A R
28 39 32 42 34 32 45 49

P E O P L E N E C K S W E A T E R S !"
27 32 23 27 36 32 37 32 35 44 25 34 32 45 28 32 49 25

"WHAT IS GREEN & USES 'SHELL' TO GO 100 km/h?
A T U R T L E I N A S P O R T S C A R"
45 28 43 49 28 36 32 31 37 45 25 27 23 49 28 25 35 45 49

Y 336 ÷ 8 = 42 K 220 ÷ 5 = 44 R 196 ÷ 4 = 49 U 258 ÷ 6 = 43
N 222 ÷ 6 = 37 I 124 ÷ 4 = 31 L 180 ÷ 5 = 36 C 280 ÷ 8 = 35
W 306 ÷ 9 = 34 H 273 ÷ 7 = 39 O 207 ÷ 9 = 23 P 189 ÷ 7 = 27
A 540 ÷ 12 = 45 T 336 ÷ 12 = 28 S 275 ÷ 11 = 25 E 352 ÷ 11 = 32

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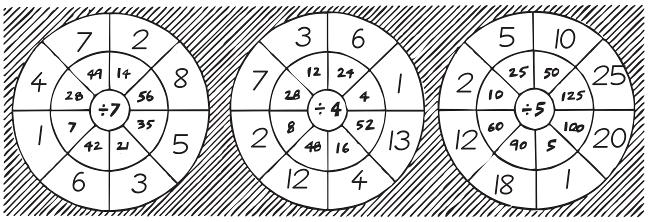
Divide each number by 10

60	40	20	10	580	1000	1600	2000	10 000	12 680	157 800
6	4	2	1	58	100	160	200	1000	1268	15780

Divide each number by 100.

100	2000	2500	5000	200	3600	1500	53 000	41 600	271 000	19 000 000
1	20	25	50	2	36	15	530	416	2710	190000

Divide each number by the one in the centre of each circle.



-WRITE THESE EQUATIONS AS A DIVISION SENTENCE!

-EXAMPLE

12 + 12 + 12 = 36	36 ÷ 3 = 12
7 + 7 = 14	14÷2=7
9 + 9 + 9 = 27	27÷3=9
5 × 3 = 15	15÷3=5 or 15÷5=3
4 × 8 = 32	32÷4=8 or 32÷8=4
14 + 2 =	32 ÷ 2
15 + 5 = 40 ÷	2

CALCULATOR DIVISION

ANOTHER JOB FOR... ...MISS CLAUDIA CALCULATOR!!

3780 ÷ 21 = 180 6840 ÷ 19 = 360
8544 ÷ 16 = 534 8150 ÷ 25 = 326
12684 ÷ 28 = 453 14637 ÷ 17 = 861

-COMPLETE THESE MULTIPLE BOXES

18 × 543 = 9774 18 × 345 = 6210 18 × 262 = 4716
23 × 456 = 10488 23 × 654 = 15042 23 × 191 = 4393

-NOW DO THESE DIVISION SUMS!

9774 ÷ 18 = 543 6210 ÷ 18 = 345 4716 ÷ 18 = 262
10488 ÷ 23 = 456 15042 ÷ 23 = 654 4393 ÷ 23 = 191
87414 ÷ 34 = 2571 96084 ÷ 34 = 2826 99756 ÷ 34 = 2934
654300 ÷ 20 = 32715 945600 ÷ 30 = 31520 340840 ÷ 40 = 8521

-THE FINAL TEN HAVE A DECIMAL REMAINDER. READ THE FIRST DECIMAL PLACE AND WRITE THE LETTER ABOVE THE NUMBER IN THE PUZZLE!

C 352 ÷ 14 = 25.1 E 1571 ÷ 26 = 60.4 O 941 ÷ 19 = 49.5
A 700 ÷ 16 = 43.7 N 489 ÷ 15 = 32.6 M 1448 ÷ 24 = 60.3
X 811 ÷ 18 = 45.0 R 650 ÷ 17 = 38.2 T 1615 ÷ 27 = 59.8
S 1216 ÷ 21 = 57.9

"M O S T ÷ T R E A T O N E E A S Y
3 5 9 8 8 2 4 7 8 5 6 4 4 7 9
S O M E A R E M E A N, N O T E X A C T!"
9 5 3 4 7 2 4 3 4 7 6 6 5 8 4 0 7 1 8

29 ↔ 30
31 ↔ 32

-DO-DA-CRAZY DIVISION!

÷		
48	8	6
6	2	3
8	4	2

÷		
84	12	7
21	3	7
4	4	1

÷		
100	25	4
10	5	2
10	5	2

Dad shared 12 apples equally among his 4 children. How many apples did each child get? 3

Mum shared 80c between 4 children. How much did each child get? 20c

Uncle Ben shared 27 chocolates between 4 children. How many did each child get? 6 How many were left for Uncle Ben? 3

-DIVISION SQUARES!

÷	20	40	60	80
2	10	20	30	40
4	5	10	15	20
5	4	8	12	16
10	2	4	6	8

÷	12	24	36	48
2	6	12	18	24
3	4	8	12	16
4	3	6	9	12
6	2	4	6	8

÷	50	100	200	500
10	5	10	20	50
5	10	20	40	100
2	25	50	100	250
25	2	4	8	20

Find a place for each card. (You can only use each card once.)

2 3 4 5 6 7 8 9 10

16 ÷ 2 = 8 49 ÷ 7 = 7 100 ÷ 10 = 10 25 ÷ 5 = 5
36 ÷ 9 = 4 16 ÷ 2 = 8 42 ÷ 6 = 7 27 ÷ 3 = 9
54 ÷ 9 = 6

MAX & DI TEAM UP TO BRING YOU MORE OF THEIR... MERITORIOUS MATHS!

3 × 8 = 24 9 × 2 = 18 5 × 3 = 15 7 × 6 = 42
4 × 4 = 16 5 × 5 = 25 7 × 7 = 49 9 × 9 = 81

14 × 4 = 56 15 × 5 = 75 16 × 6 = 96 17 × 7 = 119 18 × 8 = 144 19 × 9 = 171

37 × 9 = 333 124 × 3 = 372 235 × 2 = 470 346 × 2 = 692 132 × 3 = 396 240 × 9 = 2160

70 ÷ 7 = 10 60 ÷ 3 = 20 64 ÷ 8 = 8 42 ÷ 2 = 21
81 ÷ 9 = 9 45 ÷ 5 = 9 40 ÷ 4 = 10 30 ÷ 6 = 5

108 ÷ 12 = 9 144 ÷ 12 = 12 192 ÷ 12 = 16 240 ÷ 12 = 20 360 ÷ 12 = 30
2568 ÷ 2 = 1284 4725 ÷ 3 = 1575 65432 ÷ 4 = 16358 31475 ÷ 5 = 6295

S 78 × 10 = 780 O 39 × 8 = 312 Y 27 × 9 = 243 I 62 × 12 = 744 A 54 × 7 = 378

G $\frac{60}{15}$ = 4 H $\frac{102}{17}$ = 6 T $\frac{100}{20}$ = 5 M $\frac{175}{25}$ = 7

"G O M I G H T Y M A T H S!"
4 312 7 744 4 6 5 243 7 378 5 6 780

MATHEMATICAL SENTENCES

-WRITE A NUMBER SENTENCE FOR EACH STATEMENT.
(THE FIRST ONE IS DONE FOR YOU!)

• The sum of 9 and 8 is 17.	9 + 8 = 17
• The difference between 24 and 16 is 8.	24 − 16 = 8
• 45 is greater than 22.	45 > 22
• The product of 6 and 4 is 24.	6 x 4 = 24
• The sum of 8 and 12 is less than 30.	8 + 12 < 30
• 8 from 13 is 5	13 − 8 = 5
• 12 and 9 is 21	12 + 9 = 21
• Add 7 to 3 and get 10	7 + 3 = 10
• 5 is less than 24	5 < 24
• Subtract 3 from 27 to get 24	27 − 3 = 24
• The product of 8 and 5 is equal to the sum of 36 and 4	8 x 5 = 36 + 4
• 16 divided by 8 is 2	16 ÷ 8 = 2
• 27 is greater than 16	27 > 16
• Multiply six eights and get forty eight.	6 x 8 = 48

MORE... ...NUMBER SENTENCES!

Fill in the spaces with the correct number.

16 + 4 = 12 + 8 | 3 × 2 × 5 = 30 | (5 × 4) + 3 = 23

(6 × 6) + 4 = 40 | 19 + 7 = 33 − 7 | 42 ÷ 7 = 9 − 3

100 − 20 = 40 × 2 | 10 + 10 = 2 × 10 | (8 × 2) + 6 = 22

(6 × 5) + 10 = 40 | (5 × 10) − 5 = 45 | 8 × (2 + 6) = 64

4 × 2 × 9 = 72 | (12 ÷ 3) ÷ 4 = 1 | 12 ÷ (6 ÷ 2) = 4

Now give the correct sign. (+ - x ÷)

6 (×) 4 = 24 | 12 (÷) 3 = 4 | 16 (÷) 4 = 2 × 2

(26 − 5) = 7 (×) 3 | 8 (+) 2 = 5 + 5 | (3 × 5) (−) 6 = 9

5 (+) (3 + 5) = 13 | 10 (−) (4 × 2) = 2 | 36 (÷) 4 = 7 (+) 2

Complete the sentences by using > = or < signs

63 (=) 9 × 7 | 16 + 5 (<) 27 | 9 × 9 (<) 100

50 (>) 43 + 4 | 27 + 5 (=) 32 | 100 − 40 (=) 60

36 (=) 9 × 4 | 2 × 13 (<) 27 | 15 × 5 (>) 30

36 ÷ 4 (>) 20 − 12 | 17 + 2 (>) 6 × 3 | 14 − 8 (<) 6 + 6

15 ÷ 5 (<) 24 ÷ 6 | 15 × 0 (<) 3 × 2 | 10 × 90 (=) 90 × 10

33 34 35 36

WHY DO ELEPHANTS HAVE SO MANY WRINKLES?

To find the answer, calculate the missing number in each problem, then put the letter above that number in the code below.

N: 9 + 9 + 9 + 9 = 4 × 9

R: 5 × 12 = 6 × 10

A: (8 + 6) ÷ 2 = 7

Y: (48 ÷ 6) ÷ 6 = 9

D: 19 + 8 = 30 − 3

V: 3 × 9 = 16 + 11

E: 13 + 8 = 7 × 3

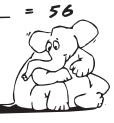
T: 6 + 6 + 6 = 9 × 2

O: 16 ÷ 2 = 48 ÷ 6

U: 5 × 2 × 5 = 30

H: (8 × 6) + 8 = 56

I: 12 × 2 = 12 + 12



"HAVE 8 7 11 13 YOU 6 2 5 EVER 13 11 13 10 TRIED 9 10 12 13 3

TO 4 2 IRON 12 10 2 4 ONE? 2 4 13 "

I: 3 × (6 − 1) = 15

P: 10 × (6 − 4) = 20

U: 8 × (1 × 5) = 40

C: 4 × (10 − 2) = 32

R: 5 × (6 + 4) = 50

O: (5 − 4) × 3 = 3

H: (8 + 3) × 6 = 66

T: 3 × (5 − 3) = 6

S: (4 − 4) × 5 = 0

W: (10 − 6) × 6 = 24

D: 6 × (12 − 7) = 30

L: 3 × (10 + 2) = 36

A: (5 − 2) × 3 = 9

Z: 4 × (2 + 1) = 12

W: 4 × (5 + 6) = 44

E: (3 + 1) × 4 = 16

N: (2 + 3) × 2 = 10

NEW 10 16 44 ZEALAND 12 16 9 36 9 10 30

WINS 24 15 10 0 THE 6 66 16

WORLD 24 3 50 36 30 CUP! 32 40 20

PUT A +, −, X OR ÷ SIGN IN EACH □ TO MAKE THE EQUATIONS CORRECT!

5 + (3 + 5) = 13 | 9 − 9 = 8 − 8 | 6 ÷ 2 X 3 = 9

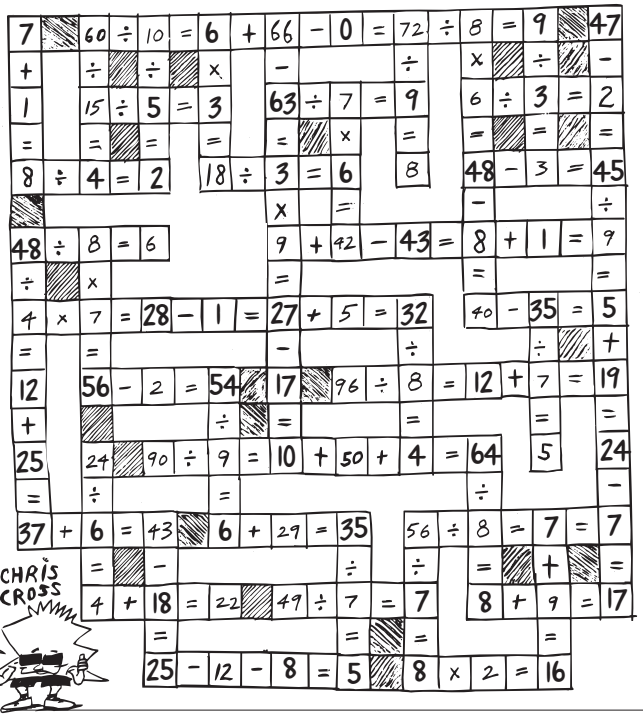
10 ÷ (2 × 5) = 1 | 16 + 8 = 8 X 3 | 15 × 6 ÷ 3 = 30

36 + (4 × 3) = 48 | 8 ÷ 8 = 9 ÷ 9 | 6 × 4 − 3 = 21

9 − (12 − 6) = 3 | 36 ÷ 4 = 7 + 2 | 9 + 8 − 7 = 10

12 X (8 ÷ 2) = 48 | 3 × 10 = 6 X 5 | 3 × 4 X 2 = 24

CROSS NUMBER PUZZLE



Fill in the boxes to complete the sums.

7 + 5 = 12
8 + 14 = 22
9 + 9 = 18
9 + 6 = 15
3 + 29 = 32
4 + 18 = 22
6 + 17 = 23
26 + 12 = 38
34 + 29 = 63

Complete these sentences by writing < = or > into each ○

6 + 5 > 9
12 + 7 < 25
8 + 4 > 9 + 2
15 + 2 = 10 + 7
18 + 12 > 10 + 10
8 + 2 < 82
9 < 4 + 7
5 > 2 + 1

– COMPLETE THE SQUARES BY ADDING THE ROWS AND COLUMNS!!

+	3	7	10
8	4	12
11	11	22

+	12	16	28
9	5	14
21	21	42

+	24	20	44
16	15	31
40	35	75

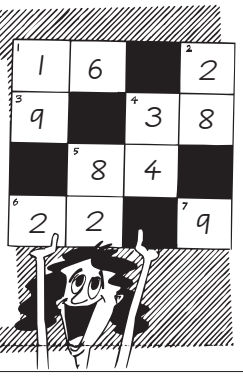
CRAZY CROSS-NUMBER

ACROSS

1. Increase 10 by 6.
3. The sum of 6 and 3.
4. Russell saves $25
   Beverly saves $11
   Graeme saves $2
   How much is saved altogether?
5. Sandy has 27 music cassettes
   Jean has 32 music cassettes
   Audrey has 25 music cassettes
   How many cassettes altogether?
6. What is 6 more than 16.

DOWN

1. 5 + 6 + 8
2. 16 + 12
4. 9 + 25
5. 24 + 25 + 33
7. 1 + 5 + 1 + 2



Fill in the boxes to complete the sums.

17 − 8 = 9 11 − 6 = 5
12 − 9 = 3 9 − 7 = 2
10 − 8 = 2 8 − 5 = 3
12 − 5 = 7 12 − 4 = 8
22 − 8 = 14
15 − 6 = 9
24 − 18 = 6
23 − 18 = 5
19 − 18 = 1

Complete these sentences by writing < = or > into each ○

16 − 8 > 5
12 − 6 > 3
11 − 4 = 7
10 − 8 < 8
15 − 12 < 6
18 − 12 = 6
13 − 7 > 1

SUBTRACTION SQUARES

−	6	4	2
2	2	0
4	2	0

−	10	7	3
5	2	3
5	5	0

−	12	8	4
5	3	2
7	5	2

−	24	18	6
9	6	3
15	12	3

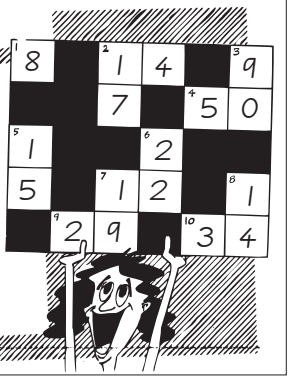
CRAZY CROSS-NUMBER

ACROSS

1. Take 12 away from 20.
2. The difference between 6 and 20.
4. Beverly has $ 100
   She spends 50
   How much does she have left?
7. Take 8 away from 20.
9. Decrease 30 by 1.
10. The difference between 40 and 6.

DOWN

2. 33 - 16
3. 100 - 10
5. 25 - 10
6. 30 - 8
7. 32 - 13
8. 34 - 20



37 ↔ 38
39 ↔ 40

– ARITHMETIC APTITUDE

– USE YOUR NUMBER SKILLS TO FILL IN EACH GAP TO COMPLETE THE EQUATIONS BELOW!

12 + 6 = 15 + 3 (3 + 8) − 4 = 7 13 + 8 = 8 + 13
16 + 5 = 14 + 7 (7 + 9) + 4 = 20 36 − 0 = 20 + 16
15 + 0 = 9 + 6 (9 − 3) + 9 = 15 9 + 9 = 10 + 8
4 + 20 = 18 + 6 (12 + 3) − 8 = 7 6 + 45 = 40 + 11
8 + 9 = 9 + 8 (12 − 8) + 3 = 7 16 + 0 = 10 + 6

NOW WRITE × OR ÷ IN EACH △ TO MAKE TRUE SENTENCES!

6 × 3 = 18 24 × 2 = 48 8 × 9 = 72
4 × 9 = 36 70 ÷ 7 = 10 6 ÷ 6 = 1
18 ÷ 6 = 3 60 × 10 = 600 36 ÷ 9 = 4
20 × 5 = 100 50 ÷ 5 = 10 48 × 2 = 96

– COMPLETE THESE NUMBER SENTENCES

16 + 4 = 10 + 10 100 − 10 = 9 × 10 (4 × 6) + 6 = 30
3 × 9 = 22 + 5 3 × 2 × 5 = 30 (3 × 7) − 8 = 13
26 − 8 = 10 + 8 (12 ÷ 6) ÷ 2 = 1 (6 × 6) + 7 = 43
19 + 7 = 30 − 4 12 ÷ (6 ÷ 2) = 4 (4 × 8) + 9 = 41
48 ÷ 8 = 3 + 3 8 × (2 + 7) = 72 (7 × 8) − 7 = 49
42 ÷ 7 = 9 − 3 (8 × 2) + 7 = 23 (6 × 5) + 8 = 38
20 − 4 = 8 × 2 (5 × 9) − 5 = 40

. . . AND FINALLY

×	5	10	15	20
7	35	70	105	140
12	60	120	180	240
20	100	200	300	400

+	13	46	78	119
25	38	71	103	144
52	65	98	130	171
87	100	133	165	206

HEY, WORK POSITIVELY!

– ORDERING YOUR MULTIPLICATION

FIRST OF ALL TRY THESE (REMEMBER BRACKETS FIRST!)

(6 × 2) × 3 = 36 6 × (2 × 3) = 36
(8 × 3) × 2 = 48 8 × (3 × 2) = 48
(6 × 4) × 3 = 72 6 × (4 × 3) = 72
(10 × 3) × 8 = 240 10 × (3 × 8) = 240
(8 × 6) × 2 = 96 8 × (6 × 2) = 96

Which column was the easiest to work out ? Column 2 should be easier

When you change the order in multiplication does the answer change ? No

– NOW TRY THESE! – CIRCLE THE EASIEST ONE TO ANSWER.

25 × (12 × 4) = 1200 (25 × 12) × 4 = 1200
(4 × 25) × 12 = 1200 (4 × 12) × 25 = 1200

A short way of multiplying is to group together certain numbers.

5 × 16 × 2 = 10 × 16 = 160
8 × 20 × 5 = 8 × 100 = 800

– NOW YOU TRY THESE!

2 × 16 × 5 = 160 5 × 22 × 2 = 220 55 × 50 × 2 = 5500
5 × 2 × 27 = 270 2 × 50 × 4 = 400 5 × 24 × 2 = 240
4 × 29 × 25 = 2900 25 × 80 × 4 = 8000 20 × 16 × 5 = 1600
50 × 18 × 2 = 1800 5 × 99 × 2 = 990 17 × 5 × 20 = 1700
2 × 67 × 5 = 670 4 × 112 × 25 = 11200 500 × 13 × 2 = 13000
98 × 10 × 10 = 9800 2 × 67 × 5 = 670 14 × 2 × 500 = 14000

CROSS-NUMBER

ACROSS

1. The product of 8 and 2
3. Multiply 5 by 9
4. 13 times 2
5. Eggs are sold in cartons containing 12 eggs. How many eggs in 6 cartons ?
7. Tennis balls are sold in half dozen packets. How many balls in 9 packets ?

DOWN

1. 4 x 3
2. 5 x 5
3. 23 x 2
4. 1 x 2 x 11
5. 2 x 13 x 3
6. 2 x 2 x 11

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