

Year 9 - Worksheet 10

NUMERACY STRATEGIES - SUBTRACTION

Subtraction can be easier if you break down the numbers into powers of 10.

e.g. $57 - 35 = (50 + 7) - (30 + 5) = (50 - 30) + (7 - 5) = 22$

1. $67 - 42$

2. $95 - 71$

3. $48 - 17$

4. $97 - 65$

5. $345 - 123$

6. $83 - 41$

7. $129 - 17$

8. $348 - 236$

9. $415 - 205$

10. $1381 - 130$

NUMBER APPLICATIONS

1. Three men sprinted 100 metres, each with the following times:
placing

Peter 9.91 seconds _____

Michael 9.97 seconds _____

Philip 9.899 seconds _____

the
Winner

Who was first, second and third? _____

Add and subtract the following fractions

1. $\frac{2}{7} + \frac{2}{7} =$ _____

2. $\frac{3}{9} + \frac{2}{9} =$ _____

3. $\frac{25}{63} + \frac{14}{63} =$ _____

4. $\frac{11}{20} + \frac{3}{20} + \frac{4}{20} =$ _____

5. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} =$ _____

6. $\frac{4}{9} - \frac{2}{9} =$ _____

7. $\frac{11}{12} - \frac{3}{12} =$ _____

8. $\frac{21}{30} - \frac{11}{30} =$ _____

9. $\frac{5}{50} - \frac{4}{50} =$ _____

10. $\frac{21}{67} - \frac{17}{67} =$ _____

1. $\frac{1}{2} + \frac{1}{3} =$ _____

2. $\frac{1}{4} + \frac{1}{7} =$ _____

3. $\frac{3}{4} + \frac{2}{7} =$ _____

4. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ _____

5. $\frac{3}{11} + \frac{2}{5} =$ _____

6. $\frac{1}{8} - \frac{1}{7} =$ _____

7. $\frac{2}{5} + \frac{1}{4} =$ _____

8. $\frac{2}{5} - \frac{1}{4} =$ _____

9. $\frac{3}{4} - \frac{2}{7} =$ _____

10. $\frac{1}{2} + \frac{1}{4} - \frac{1}{3} =$ _____

Simplify the following fractions.

1. $\frac{6}{10}$

2. $\frac{3}{15}$

3. $\frac{9}{15}$

4. $\frac{20}{50}$

5. $\frac{21}{28}$

6. $\frac{14}{10}$

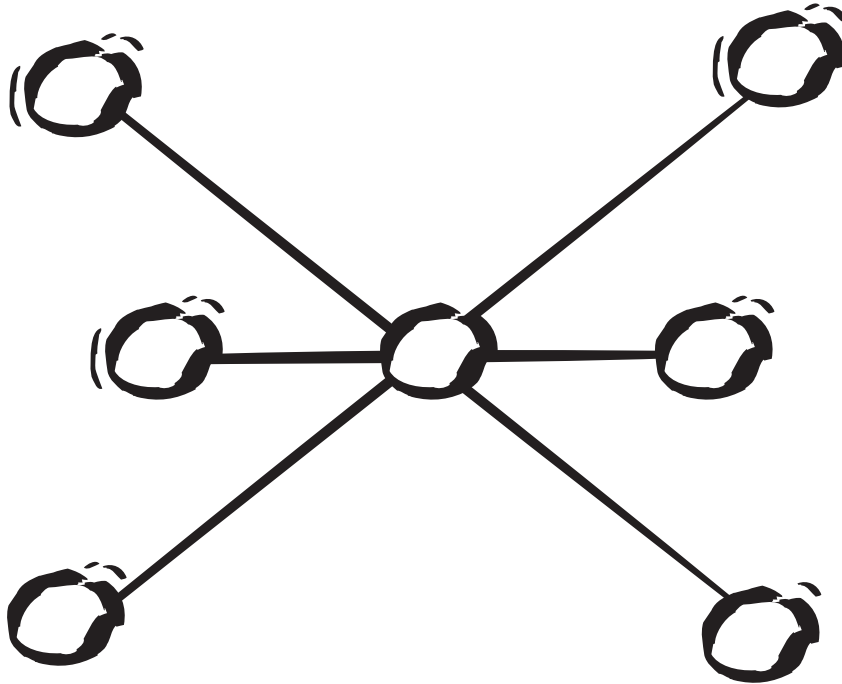
7. $\frac{32}{20}$

8. $\frac{28}{42}$

9. $\frac{18}{64}$

PUZZLE

Place the numbers 1, 2, 3, 4, 5, 6 and 7 in the circles so that the sum along each line is 14.



APPLICATIONS

- Jane intends travelling to Britain. A bank is selling British currency at 0.4413 pounds (£) for each dollar.
Convert NZ\$ 3 500 to British pounds.

- Jane decides the next day she is not going overseas and wants to convert the pounds back to New Zealand dollars. The buy rate of the bank is 0.4453 pounds (£) per NZ dollar (\$).
How much in New Zealand dollars would this be?

- Why is there a difference between what she initially spent and what she received a day later?

INVESTIGATION

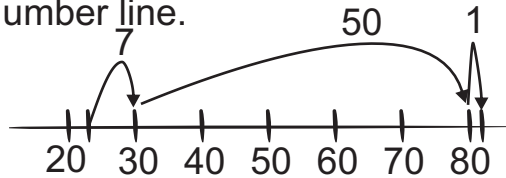
Find the odd one out in each of these sets of sums.

1.	$93 + 145 + 12$	$175 - 8 + 83$	$153 + 124 - 23$
2.	215×12	50×53	43×60
3.	$4032 \div 63$	$320 \div 5$	$804 \div 12$

NUMERACY STRATEGIES - ADDITION

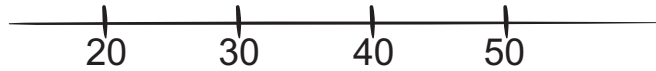
Addition can be easier if you use a number line.

e.g. $23 + \boxed{58} = 81$

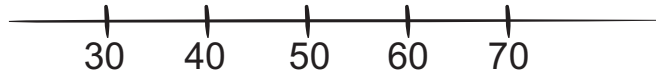


Use the number lines to complete these addition sums.

1. $18 + \boxed{} = 57$



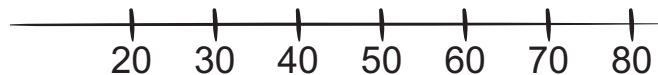
2. $29 + \boxed{} = 73$



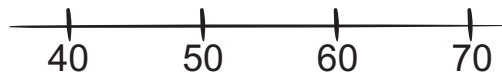
3. $33 + \boxed{} = 49$



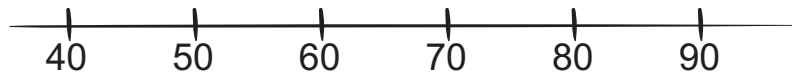
4. $22 + \boxed{} = 79$



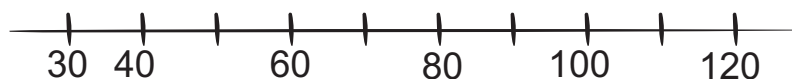
5. $39 + \boxed{} = 65$



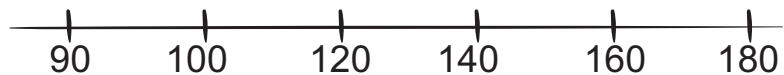
6. $47 + \boxed{} = 93$



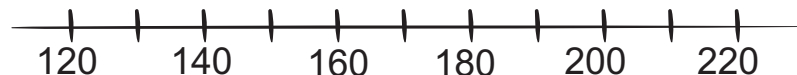
7. $28 + \boxed{} = 121$



8. $93 + \boxed{} = 173$



9. $121 + \boxed{} = 217$



10. $169 + \boxed{} = 223$

