Q1.

Look at these equations.

$$a = 2b$$

$$b = 3c$$

Which equation below is also true?

Put a ring round the correct one.

$b = 2a$ $a = 2b + 3c$ $a = 5c$

$a = 6c$ $a + b = 5$

1 mark

Q2.

Write in the missing numbers.

$35 \times \boxed{} = 140$

1 mark

$633 - \boxed{} = 34$

1 mark

Q3.

Use only these numbers.

4	8	12	16	20
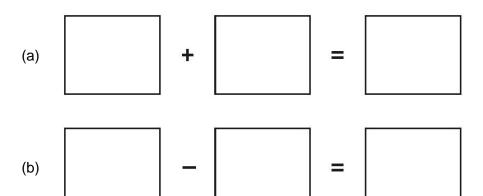
Write numbers in the boxes to make these correct.

Numbers can be used more than once.

(a) $\boxed{} + \boxed{} = \boxed{}$

(b) $\boxed{} - \boxed{} = \boxed{}$
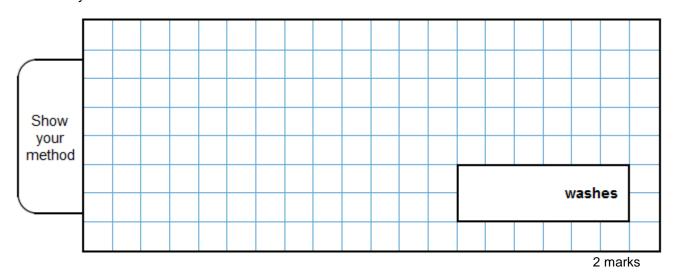
2 mark

Q4.

A box contains 2.6 kg of washing powder.

washing powder

2.6 kg

Jack uses 65 grams of powder for each wash.

He uses all the powder.

How many washes did Jack do?
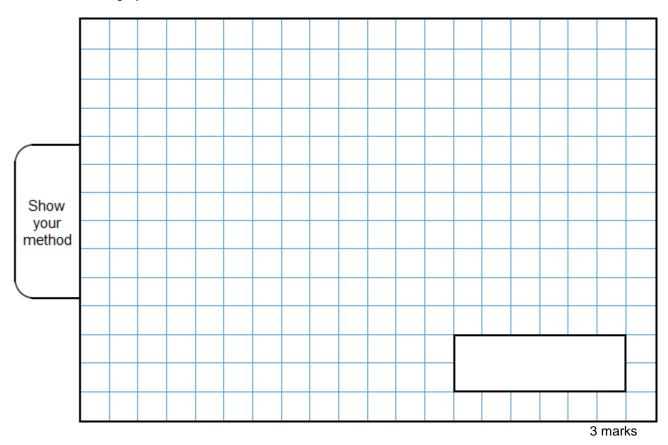
Show your method

washes

2 marks

Q5.

There are 28 pupils in a class.

The teacher has 8 litres of orange juice.

She pours 225 millilitres of orange juice for every pupil.

How much orange juice is left over?

Show your method

3 marks

Q6.

A bottle contains 568 millilitres of milk.
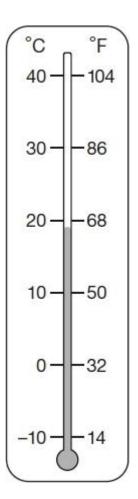
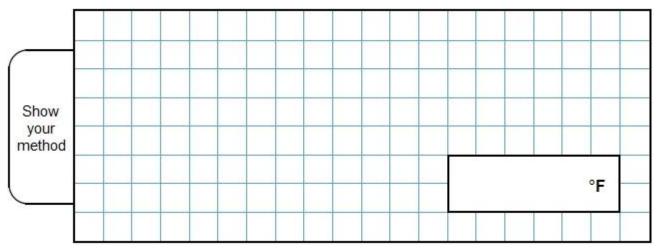Jack pours out **half a litre**.

How much milk is left?

[ ]

Q7.

This thermometer shows temperatures in both °C and °F.
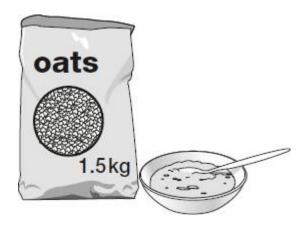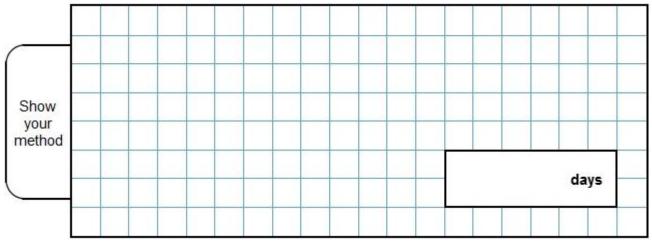

Work out what **25°C** is in °F.

°F

2 marks

Q8.

A packet contains 1.5 kg of oats.

oats

1.5kg

Every day Maria uses 50 g of oats to make porridge.
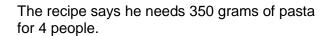
How many days does the packet of oats last?

days

2 marks
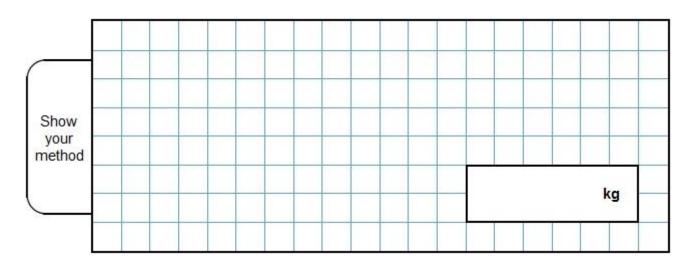
Q9.

Chen is cooking some pasta.

The recipe says he needs 350 grams of pasta for 4 people.

How many **kilograms** of pasta does he need for **12 people**?

Show your method

| | kg |

2 marks

Q10.

Write the missing numbers.

60 months = [   ] years

72 hours = [   ] days

84 days = [   ] weeks

2 marks

Mark schemes

Q1.

Equation circled as shown:

$b = 2a$ $a = 2b + 3c$ $a = 5c$

$$\boxed{a = 6c}$$

$a + b = 5$

Accept unambiguous indication

[1]

Q2.

(a)   4

1

(b)   599

1

[2]

Q3.

(a)   4 + 16 = 20
16 + 4 = 20
8 + 12 = 20
12 + 8 = 20
4 + 12 = 16
12 + 4 = 16
8 + 8 = 16
4 + 8 = 12
8 + 4 = 12
4 + 4 = 8

Any of these additions correct for 1 mark.

1

(b)   20 − 16 = 4
20 − 12 = 8
20 − 8 = 12
20 − 4 = 16
16 − 12 = 4
16 − 8 = 8
16 − 4 = 12
12 − 8 = 4
12 − 4 = 8
8 − 4 = 4

Any of these subtractions correct for 1 mark.

1

[2]

Q4.

Award **TWO** marks for the correct answer of 40

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, e.g.

- 2.6 × 1,000 = 2,600
  2,600 ÷ 65 =
- 2.6 ÷ 0.065 =

> *Answer need not be obtained for the award of **ONE** mark.*
>
> ***Do not** accept an incorrect conversion or no conversion of units, e.g.*
> - *260 ÷ 65 =*
> - *2.6 kg ÷ 65 g*

Up to 2m

[2]

Q5.

Award **THREE** marks for the correct answer of 1.7 (litres) or 1,700 (ml).

If the answer is incorrect, award **TWO** marks for:

- sight of 6,300 **OR** 6.3 as evidence of the multiplication completed correctly

OR

- evidence of an appropriate complete method with no more than one error, e.g.

  - 28 × 225 = 6,300
    8 litres = 8,000 ml
    8,000 − 6,300 = 2,700 *(error)*

Award **ONE** mark for evidence of an appropriate method, e.g.

- 8,000 − 28 × 225 =

> *Unit need not be given for the award of **THREE** marks. An incorrect unit is treated as one error.*
>
> *A misread may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.*
>
> ***TWO** marks will be awarded for an appropriate complete method with the misread number followed through correctly.*
>
> ***ONE** mark will be awarded for evidence of an appropriate complete method with the misread number followed through correctly with one arithmetic error.*
>
> *If the answer reached in the first part of the calculation gives an answer greater than 8(L) or 8000(ml) and the smaller value is then subtracted from it, **ONE** mark may still be available.*
>
> *Answer need not be obtained for the award of **ONE** mark.*

Up to 3m

[3]

Q6.

68 (ml) **OR** 0.068 (l)

> ***Do not*** *accept incorrect units, e.g. 68 l **OR** 0.068 ml.*

[1]

Q7.

Award **TWO** marks for the correct answer of 77°F.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- 86 – 68 = 18
  18 ÷ 2 = 19
  9 + 68

OR

- 86 – 68 = 18
  18 ÷ 2 = 9
  86 – 9

OR

- 86 + 68 = 154
  154 ÷ 2

> *Answer need not be obtained for the award of **ONE** mark.*

> **Up to 2m**

[2]

Q8.

Award **TWO** marks for the correct answer of 30.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- 1.5 kg = 1,500 g
  1,500 ÷ 50

> *Answer need not be obtained for the award of **ONE** mark.*

> *Units must be converted correctly for the award of **ONE** mark.*

> **Up to 2m**

[2]

Q9.

Award **TWO** marks for the correct answer of 1.05 kg.

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

■ 12 ÷ 4 = 3

350 × 3 = 1050

1050 ÷ 1000 = wrong answer

> ***Do not*** *accept 1050 g*
>
> *Accept for **ONE** mark 10.5 or 105 as evidence of appropriate working.*
>
> *Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2m

[2]

Q10.

Award **TWO** marks for three boxes completed correctly as shown:

60 months =	**5**	years
72 hours =	**3**	days
84 days =	**12**	weeks

If the answer is incorrect, award **ONE** mark for two boxes completed correctly.

Up to 2m

[2]