

Q1.

The height of the tallest person in history is 8 feet 11 inches.

Conversion table	
One foot	30 centimetres
One inch	2.5 centimetres

Use this conversion table to calculate the height of the tallest person, in **centimetres**.

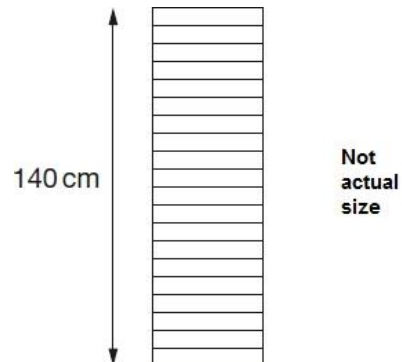
Show your method

cm

2 marks

Q2.

A stack of 20 identical boxes is 140 cm tall.



Stefan takes **three** boxes off the top.

How tall is the stack now?

Show your method

cm

2 marks

Q3.

Jacob cuts **4** metres of ribbon into **three** pieces.

The length of the first piece is **1.28** metres.

The length of the second piece is **1.65** metres.

Work out the length of the third piece.

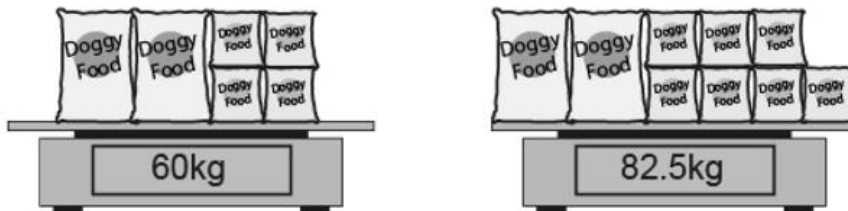
Show your method

metres

2 marks

Q4.

The balances show the **combined** masses of some large bags of dog food and some small bags of dog food.



How much does each bag-size weigh?

Large bag = kg

Small bag = kg

2 marks

Q5.

- (a) 1 kilogram of grapes costs £5.80
Megan buys 700 grams of grapes.
How much does she pay?

£

1 mark

- (b) 1 kilogram of cheese costs £13.50
Megan buys a piece of cheese costing £2.49



What is the mass of the cheese to the **nearest 100 grams**?

Show your method																				
															g					

2 marks

Q6.

- Freddie is half as tall as his mother.
Freddie is one metre shorter than his father.
Freddie's father is 180 centimetres tall.



How many centimetres tall is Freddie's mother?

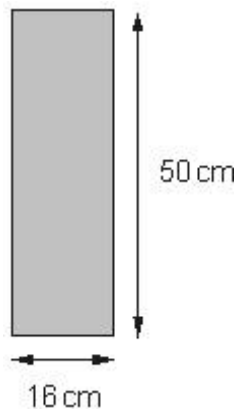
cm

1 mark

Q7.

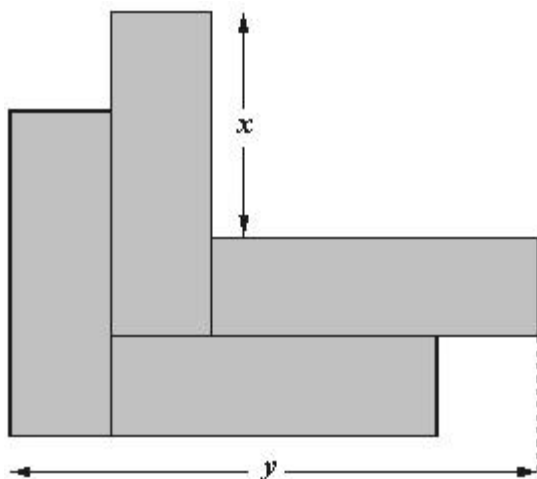
Kate has some rectangles.

They each measure 16 centimetres by 50 centimetres.



Not actual size

She makes this design with four of the rectangles.



Work out the lengths x and y .

$x =$	cm
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1 mark

$y =$	cm
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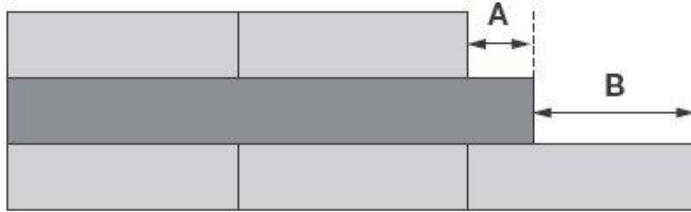
1 mark

Q8.

Liam has two different sizes of rectangle.



He makes this pattern with them.



Not actual size

Calculate the lengths of **A** and **B**.

A = _____ cm

1 mark

B = _____ cm

1 mark

Q9.

A 5p coin has a diameter of 1.8 centimetres.



Holly makes a straight line of 5p coins worth £10

£10



How long is Holly's line?
Give your answer in **metres**.

Show your method

2 marks

Mark schemes

Q1.

Award **TWO** marks for 267.5 OR $267\frac{1}{2}$ (cm)

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

- $30 \times 8 = 210$ (*error*)
 $2.5 \times 11 = 27.5$
 $210 + 27.5$

OR

- $30 \div 2.5 = 12$
 $8 \times 12 + 11 = 106$ (*error*)
 106×2.5

OR

- 12 inches = 1 ft
 $1 \text{ ft} + 8 \text{ ft} = 9 \text{ ft}$
 $30 \times 9 = 270$
 $270 - 2.5$

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

Up to 2m

[2]

Q2.

Award **TWO** marks for the correct answer of 119.

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

- $140 \div 20 = 7$
 $3 \times 7 = 21$
 $140 - 21$

OR

- $140 \div 20 = 7$
 $20 - 3 = 17$
 17×7

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

Up to 2m

[2]

Q3.

Award **TWO** marks for the correct answer of 1.07.

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

- $1.28 + 1.65 = 2.93$
 $4 - 2.93$

OR

- $4 - 1.28 = 2.72$
 $2.72 - 1.65$

OR

- $4 - 1.65 = 2.35$
 $2.35 - 1.28$

Accept for **ONE** mark an answer of 107 metres as evidence of an appropriate method.

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

Up to 2m

[2]

Q4.

a. Large bag = 15kg

1

b. Small bag = 7.5kg

1

[2]

Q5.

(a) £4.06

! Money
See guidance

1

(b) 200

! Measures
See guidance

2

or

Gives an answer of 180 or 184 or 184.4(...)

OR

Shows or implies a complete correct method, eg:

- $1000 \times 2.49 \div 13.50$
- $\pounds 13.50 \div \pounds 2.49 = 5.42$
 $1000 \div 5.42$
- $1350 \div 1000 = 1.35$

$$249 \div 1.35$$

- $\text{£}1.35 = 100$

$$\text{£}2.70 = 200$$

! Inconsistent units

*Within an otherwise correct method, condone
eg, for 1 mark accept:*

- $(\text{£})13.50 \div 1000 = 1.35(p)$

$$(\text{£})2.49 \div 1.35(p)$$

- $(\text{£})13.50 \div 1000 = (\text{£})0.0135$

$$249(p) \div (\text{£})0.0135$$

1

[3]

Q6.

160

U1

[1]

Q7.

(a) 34

1

(b) 82

1

[2]

Q8.

(a) 5

1

(b) 15

*If the answer is incorrect, award the mark if the answers to
(a) and (b) total 20*

U1

[2]

Q9.

Award TWO marks for the correct answer of 3.6

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

- $10 \div 0.05 = 200$

$$200 \times 1.8 = 360$$

$$360 \div 100$$

OR

- 20 5p coins make £1
200 5p coins make £10
 200×0.018

*Answer must be in metres for the award of **TWO** marks.*

*Accept for **ONE** mark 360 centimetres.*

*If the answer is incorrect, accept for **ONE** mark an answer of 36 multiplied by any power of 10 with no evidence of an incorrect method.*

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

Up to 2

[2]