

Mark schemes

Q1.

Award **TWO** marks for the correct answer of 72

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

■ $13 \times 4 = 52$

$5 \times 4 = 20$

$52 + 20 =$ wrong answer

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2

[2]

Q2.

90

[1]

Q3.

49

[1]

Q4.

(a) E

1

(b) B

1

[2]

Q5.

(a) A mathematical criterion such as:

- "They are symmetrical."
- "Each has three squares across."
- "Both have the same perimeter."
- "They have 4 joined-on lines."
- "They have the same area."

Do not accept criteria which are implicit in the fact that the shapes are made from cm squares, eg:

- "They have straight edges."

1

(b) E

1

[2]

Q6.

A 4 cm × 5 cm rectangle

[1]

Q7.

Award **TWO** marks for three different factor pairs of 36, i.e. any three of the following:

1 and 36

2 and 18

3 and 12

4 and 9

6 and 6

Award **ONE** mark for two different correct factor pairs of 36

[2]

Q8.

A different rectangle with a perimeter of 18 cm ,
e.g. 3 cm × 6 cm, 2 cm × 7 cm etc

[1]

Q9.

32 cm

1

Any factor pair of 64, other than 8 and 8, i.e. any of the following:

64 and 1

32 and 2

16 and 4

Accept dimensions where the width is longer than the length.

1

[2]

Q10.

11

Accept 11 cm²

[1]

Q11.

10

[1]

Q12.

(a) 34

1

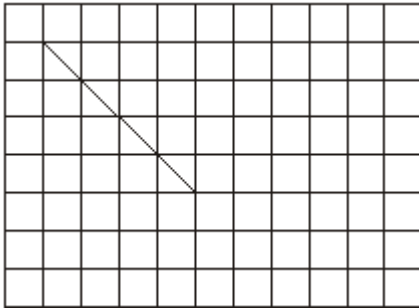
(b) 70

1

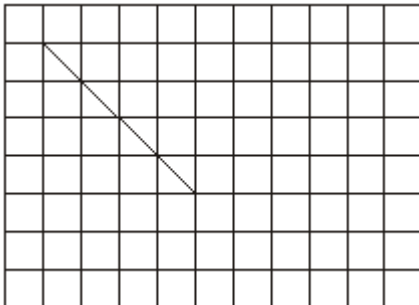
[2]

Q13.

Any rectangle with an area of 8 squares, eg



OR



Accept slight inaccuracies in drawing provided the intention is clear.

[1]

Q14.

A and D

Both letters must be correct for the award of the mark.

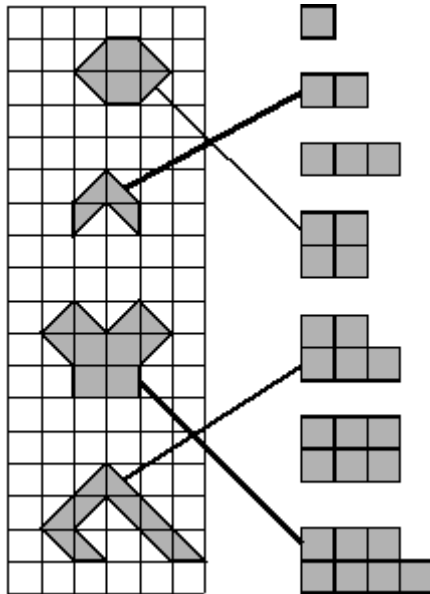
Accept either order.

Accept any other clear way of indicating the two correct shapes, such as circling.

[1]

Q15.

Award **TWO** marks for the 3 shapes matched correctly as shown:



If the answer is incorrect, award **ONE** mark for any two shapes correctly matched.

Lines need not touch shapes or area boxes exactly provided the intention is clear.

Do not accept shapes on the left which have been matched to more than one area on the right.

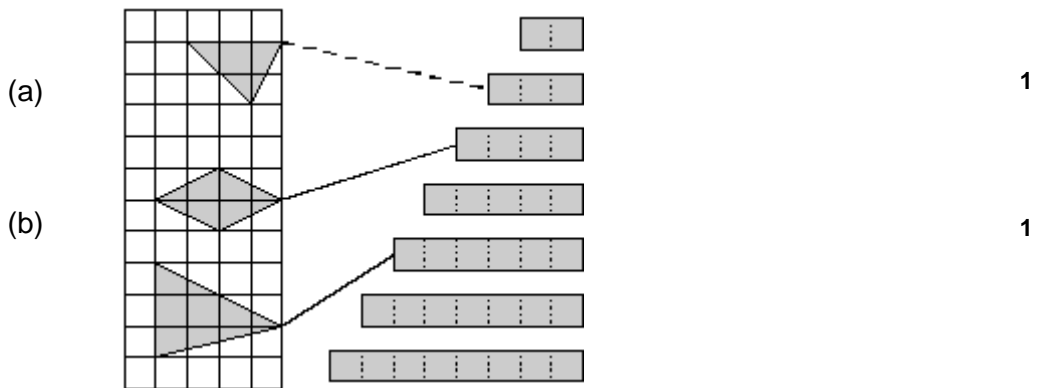
Up to 2

[2]

Q16.

Lines drawn as shown.

Lines need not touch the shapes or boxes, provided the intention is clear.



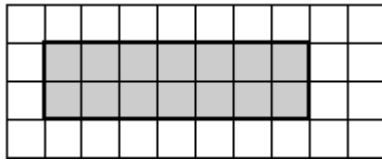
No mark is awarded in the case of **two** lines originating from one shape.

If two lines are drawn to the same rectangle, and one is correct, award **ONE** mark.

[2]

Q17.

Any rectangle with an area of 14 squares, eg



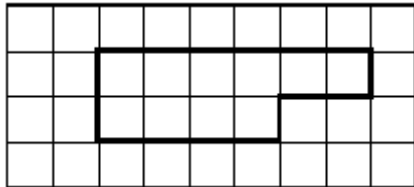
Rectangle need not be shaded or coincident with the grid lines. Accept extensions to the grid to allow, for example, a 14×1 rectangle.

Accept slight inaccuracies in drawing provided the intention is clear.

[1]

Q18.

(a) Any shape with an area of 10 cm^2 , eg

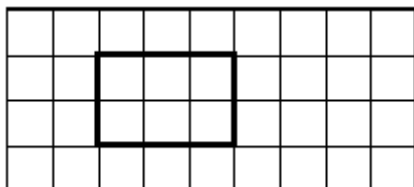


The shape need not be aligned with the grid.

Accept slight inaccuracies in drawing provided intention is clear.

1

(b) Any rectangle with a perimeter of 10 cm, eg



The rectangle need not be aligned with the grid.

Accept slight inaccuracies in drawing provided the intention is clear.

1

[2]

Q19.

(a) Rectangle – 14

1

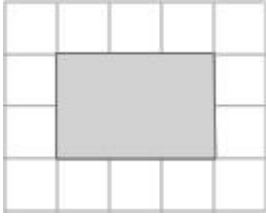
(b) Triangle – 12

1

[2]

Q20.

Any different quadrilateral with an area of 6 cm^2 , e.g.



[1]

Q21.

A different rectangle with area 20 cm^2 , e.g. $2 \text{ cm} \times 10 \text{ cm}$ rectangle

[1]