Random

Q1.

Write the correct sign **>**, **<** or **=** in each of the following.

$$(10 + 5) - 9 \quad \boxed{} \quad (10 + 9) - 5$$

$$3 \times (4 + 5) \quad \boxed{} \quad (3 \times 4) + 5$$

$$(10 \times 4) \div 2 \quad \boxed{} \quad 10 \times (4 \div 2)$$

2 marks

Q2.

In the circle write **+, −, ×,** or **÷** to make the calculation correct.

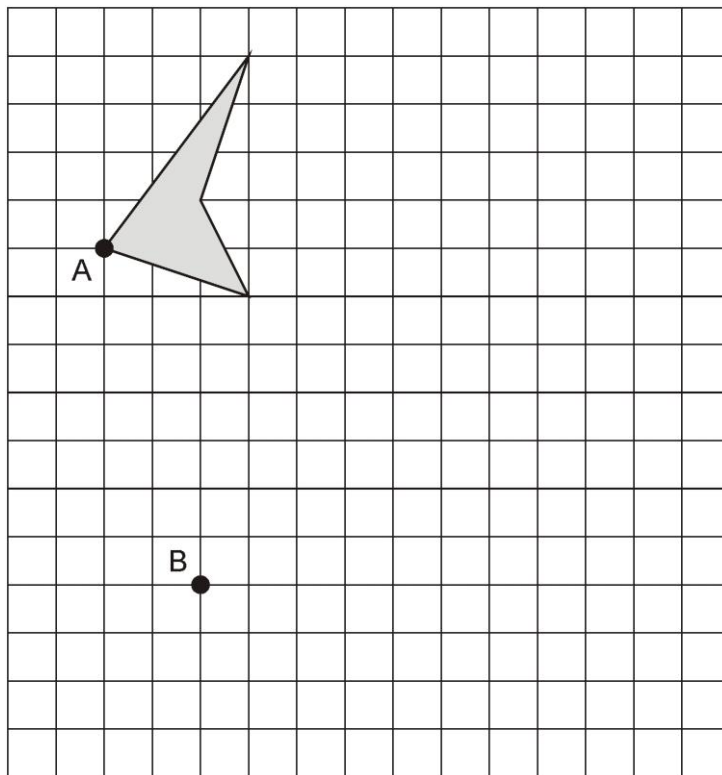$$18 \quad \bigcirc \quad 3 \quad \times \quad 5 \quad = \quad 30$$

1 mark

Q3.

The shaded shape is translated from **A** to **B** and **enlarged** by a **scale factor of 2**
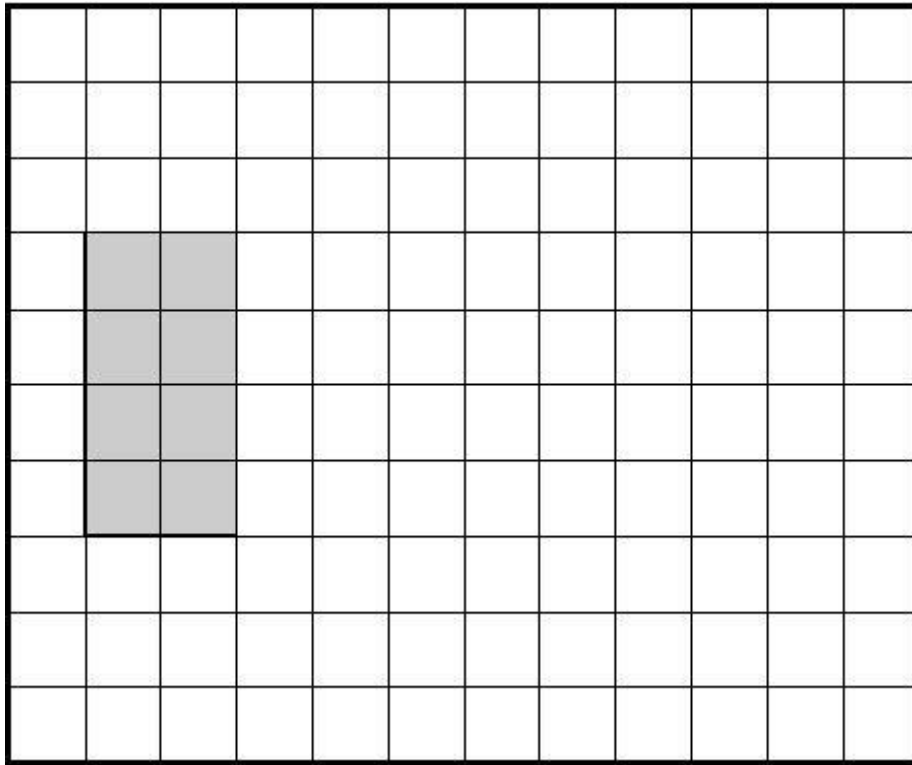
Draw the **enlarged shape** on the grid.

Use a ruler.

2 mark

Q4.

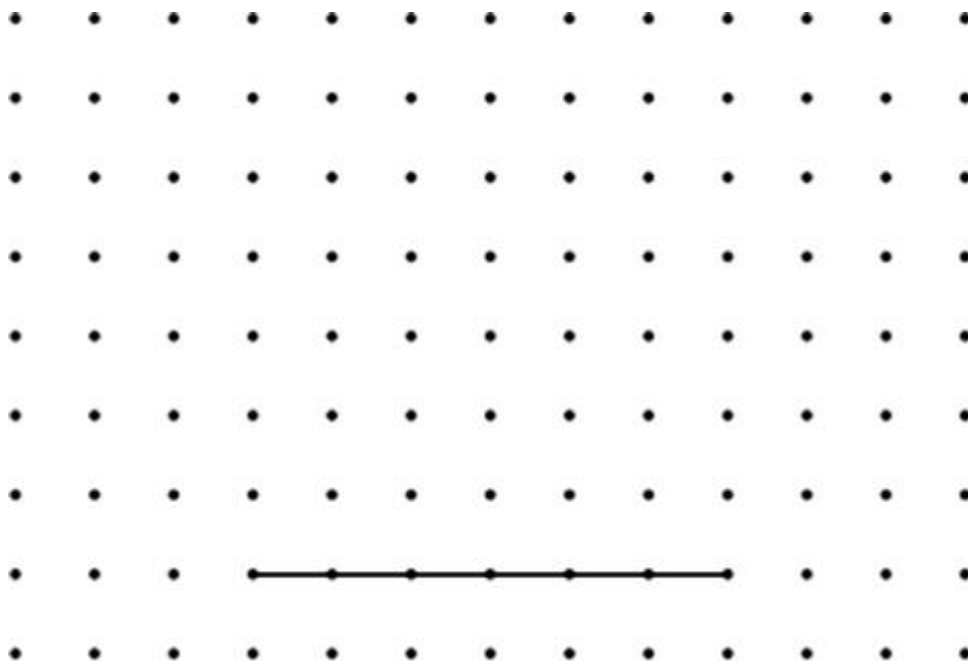On the grid draw a **triangle** with the **same area** as the shaded rectangle.

Use a ruler.

Q5.

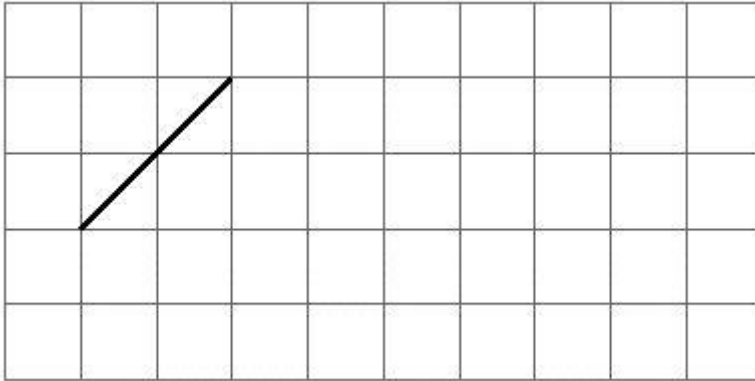Draw three more lines to complete the parallelogram with an **area** of 24 cm^2

Q6.

This is a centimetre grid.

Draw **3 more lines** to make a **parallelogram** with an **area** of **10 cm²**.
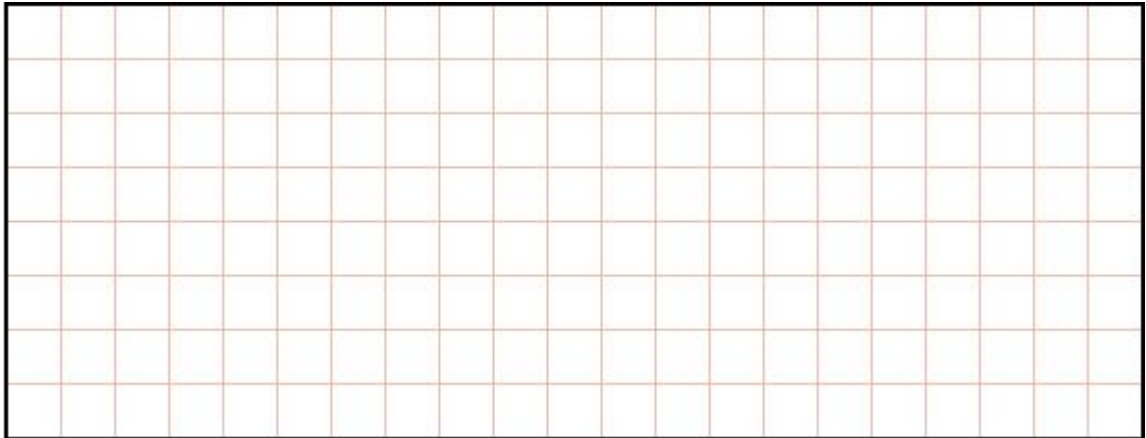
Use a ruler.

1 mark

Q7.

$60 \div (30 - 24) =$ ☐

1 mark

Q8.

$50 + (36 \div 6) =$ ☐

1 mark

Mark schemes

Q1.

Award **TWO** marks for signs written in the order shown:

$$<$$

$$>$$

$$=$$

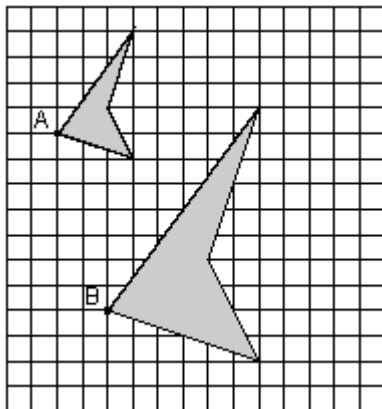If the answer is incorrect, award **ONE** mark for two out of three signs correct.

Up to 2

[2]

Q2.

18 ⊝ 3 × 5 = 30

[1]

Q3.

Award **TWO** marks for a correct drawing as shown below:

Shape need not be shaded.
Vertices must be within 2mm of the correct grid points.

If the answer is incorrect, award **ONE** mark for any two of the three plotted points correctly placed

OR a correctly enlarged shape drawn anywhere on the grid

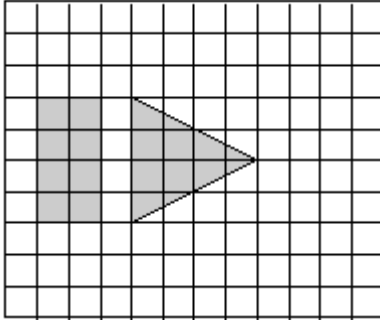**OR** a shape showing a consistent error of one grid square in the location of the three plotted vertices, eg

all plotted vertices one square too far to the right.

Up to 2

[2]

Q4.
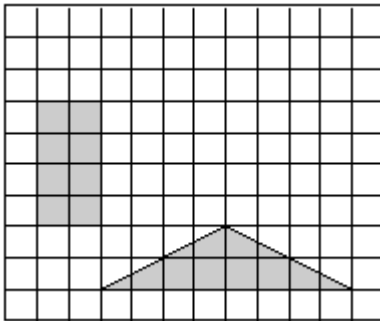
Any triangle with an area of 8 cm^2, eg

Drawings must be accurate to within 2 mm of appropriate grid intersections.
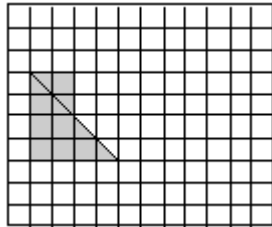
The triangle need not be shaded and need not have vertices at grid junctions.

Do not penalise drawings done without a ruler, provided the intention is clear.
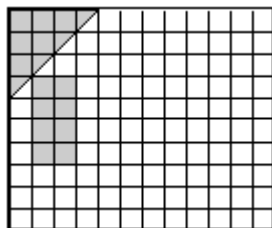
OR

Accept drawings that overlap the given rectangle or use the edge of the grid, eg
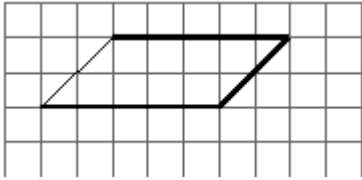

OR

[1]

Q5.

Any parallelogram with a perpendicular height of 4 cm.

Do not accept a rectangle.

[1]
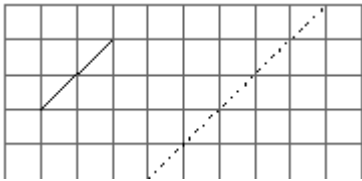
Q6.

Diagram completed as shown below:

> *Accept slight inaccuracies in drawing provided the intention is clear.*
>
> *The shape need not be shaded.*

OR

any parallelogram using the given line,
and part of the broken line shown below.

Q7.

10

[1]

Q8.

56