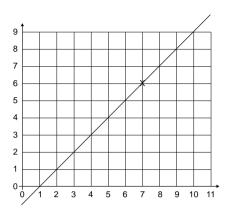
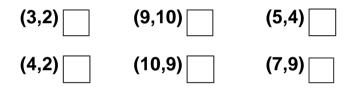
Co-ordinates and Angles KS2 SATS Standard Worksheet



(7, 6) are coordinates of a point on the line.

(a) Tick (\checkmark) which of these are coordinates of other points on the line.



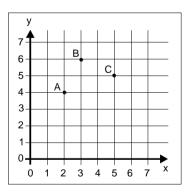
(b) How do you know that point (11, 12) would not be on this line?

1 mark

1 mark

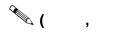
2.

1.



A, B and C are three corners of a square.

What are the co-ordinates of the other corner?

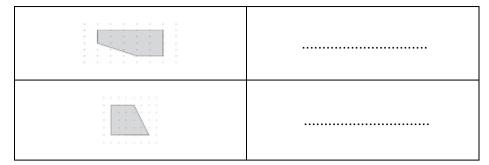


1 mark

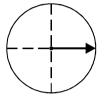
)

3. Complete the table.

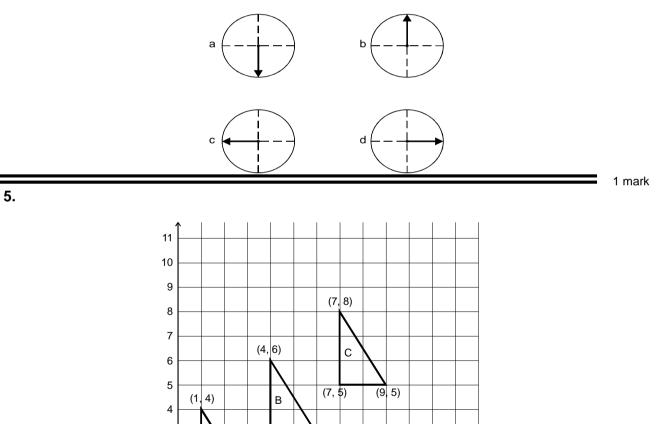
shape number of **right** angles



4. What will this arrow look like after a half turn?



Tick (\checkmark) the drawing a,b,c or d which shows this.



(6, 3)

6 7 8

9 10

11 12 13

Write the co-ordinates of the next triangle in the sequence.

2

(4, 3)

4 5

(3, 1)

3

3

2 1 (1, 1)

0

0

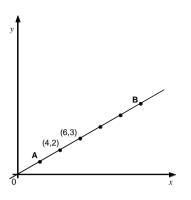
1

A

1 mark

6. Here is a graph.

2



The dots (\bullet) on the line are **equally spaced.**

What are the coordinates of the point A?

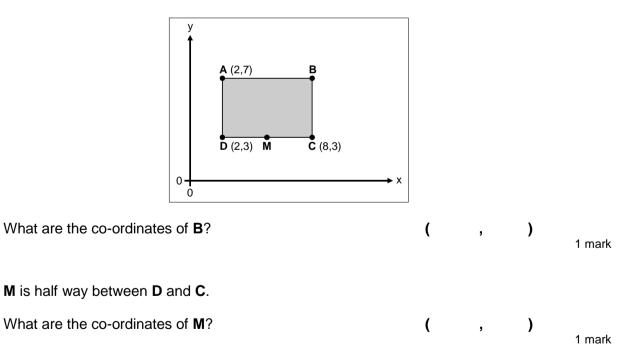
(,) 1 mark

Megan says,

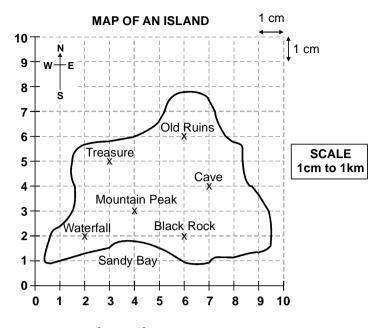
'The point B has coordinates (11,5).'

Use the graph to explain why she **cannot** be correct.

7. Here is a shaded **rectangle**.



8.

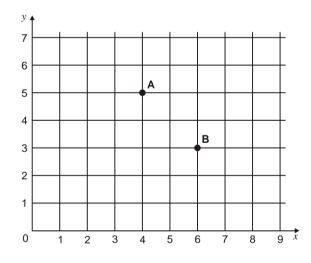


The Cave has co-ordinates (7, 4).

What are the co-ordinates of the Treasure? (,)

9. A, B, C and D are the vertices of a rectangle.

A and B are shown on the grid.



D is the point (3, 4)

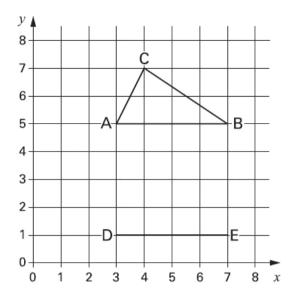
Write the coordinates of point $\ensuremath{\textbf{C}}\xspace.$



1 mark

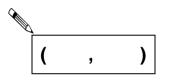
1 mark

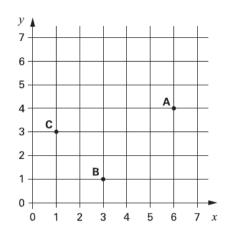
10. Kyle has drawn triangle **ABC** on this grid.



Holly has started to draw an identical triangle DEF.

What will be the coordinates of point F?

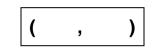




A, B and C are three corners of a rectangle.

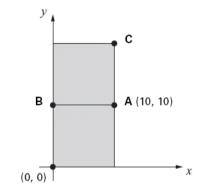
11.

What are the coordinates of the fourth corner?



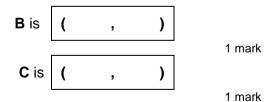
1 mark

12. The diagram shows two identical squares.



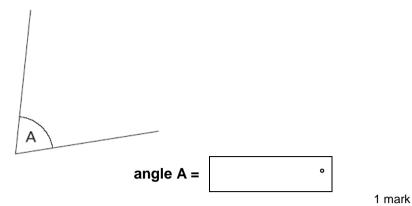
A is the point (10,10)

What are the coordinates of ${\bf B}$ and ${\bf C}?$

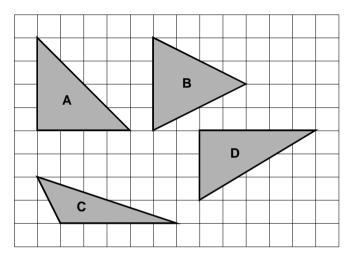


13. Measure **angle A** accurately.

Use a protractor (angle measurer).



14. Here are four triangles drawn on a square grid.



Write the letter for each triangle in the correct region of the sorting diagram.

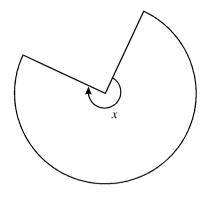
One has been done for you.

	has a right angle	has an obtuse angle	has 3 acute angles
is isosceles	Α		
is not isosceles			

2 marks

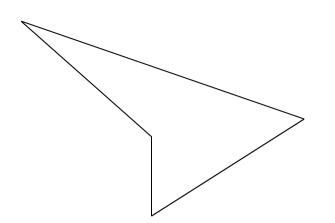
15. This shape is **three-quarters of a circle**.

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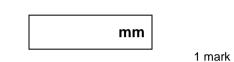
How many degrees is **angle** *x*?





Measure accurately the longest side of this shape.

Give your answer in millimetres.



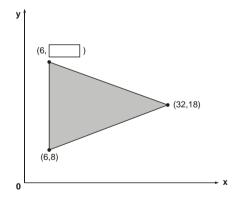
o

Measure accurately the smallest angle in the shape.

Use a protractor (angle measurer).

17. The shaded shape is an **isosceles** triangle.

Write in the missing co-ordinate.

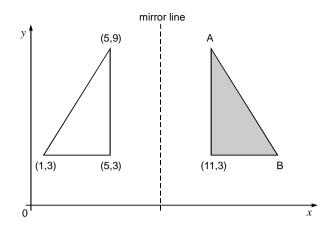


1 mark

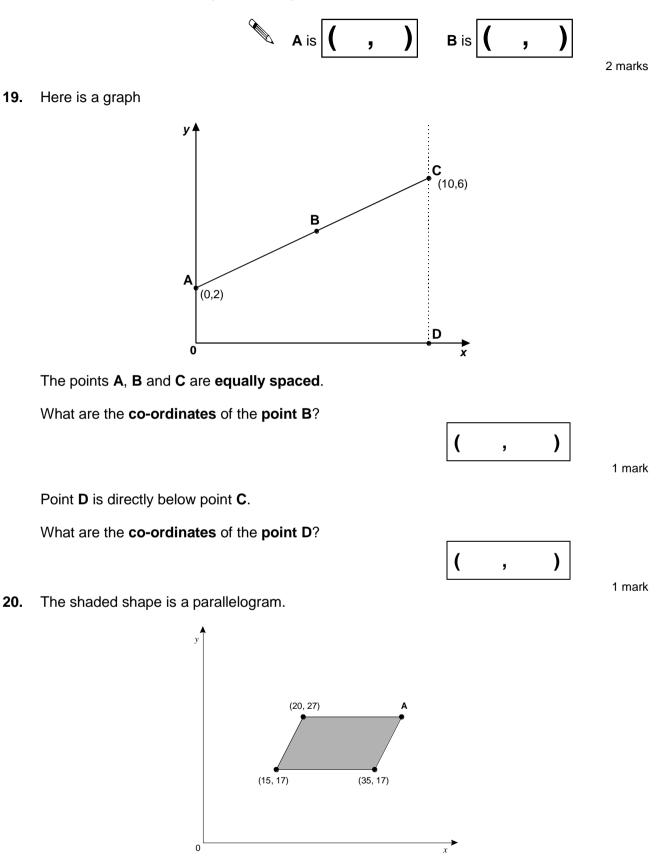
1 mark

18. The shaded triangle is a reflection of the white triangle in the mirror line.

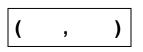




Write the **co-ordinates** of point **A** and point **B**.

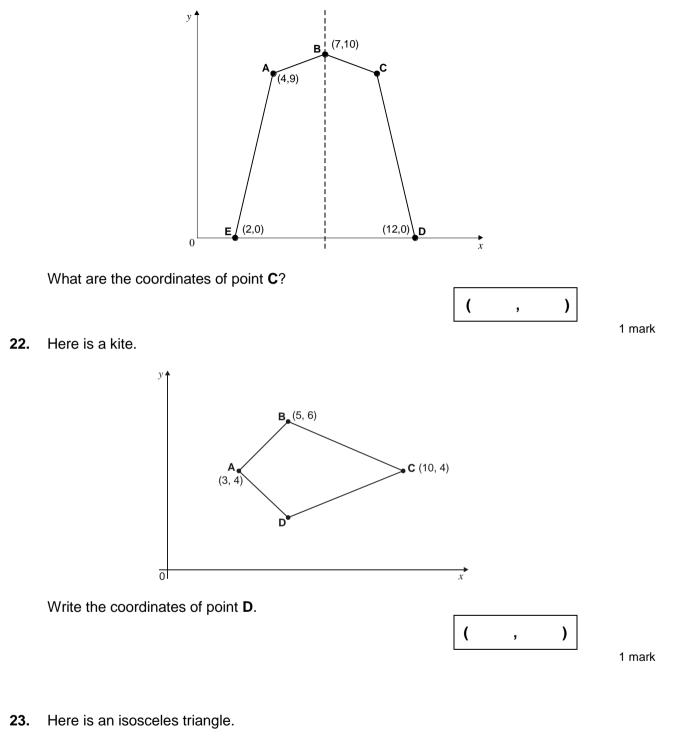


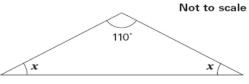
Write in the coordinates of point A.



21. Here is a pentagon drawn on a coordinate grid.

The pentagon is symmetrical.

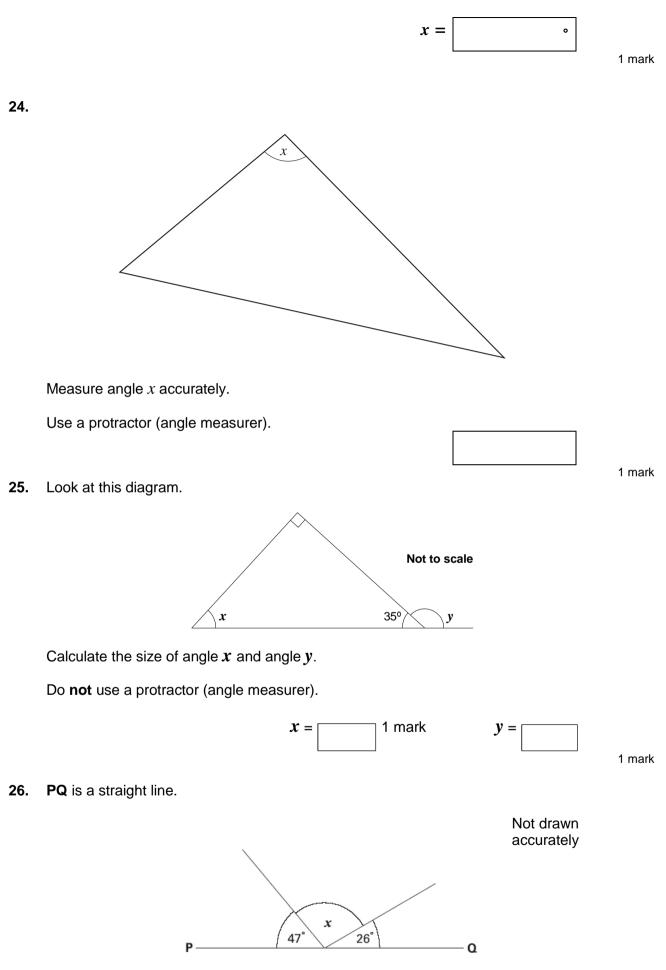




Calculate the size of angle *x*.

Do **not** use a protractor (angle measurer).

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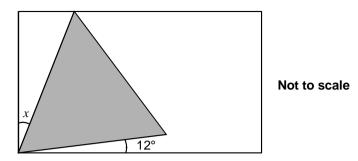


Calculate the size of angle X.

Do **not** use a protractor (angle measurer).

	0
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27. Here is an equilateral triangle inside a rectangle.



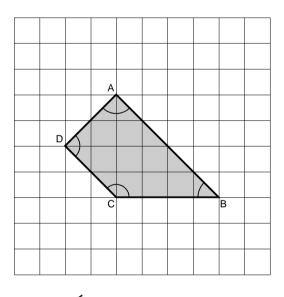
Calculate the value of angle x.

Do not use a protractor (angle measurer).



2 marks

28. Here is a shape on a square grid.



For each sentence, put a tick (\checkmark) if it is true.

Put a cross (\mathbf{x}) if it is not true.

Angle **C** is an **obtuse** angle.

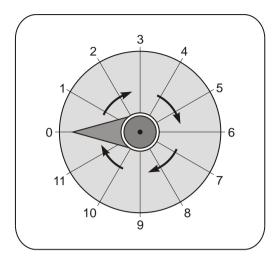
Angle **D** is an **acute** angle.

Line AD is parallel to line BC.

Line **AB** is **perpendicular** to line **AD**.

2 marks

29. Here is a dial.



The pointer on this dial turns in a **clockwise** direction. The pointer is at $\mathbf{0}$.

Which number does it point to after a turn of 270°?

The pointer moves from **10** to **11**.

How many **degrees** does it turn through?

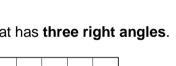
30. On the grid below, use a ruler to draw a **pentagon** that has **three right angles**.

31. Here is the start of a spiral sequence of right-angled triangles.

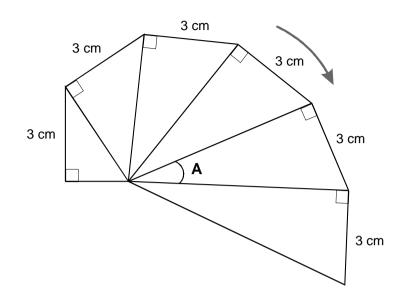
Draw **accurately** the next right-angled triangle on the diagram.

1 mark

1 mark



You may use an angle measurer.



2 marks

Use an angle measurer to find the size of angle A.

