

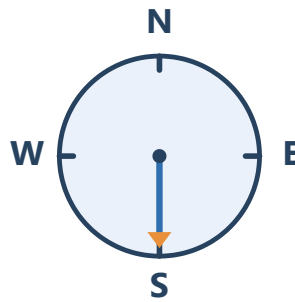
Year 4 Shapes, Angles and Symmetry: check-up and SATs-style questions: answers

Year 4 - Shapes, Angles and Symmetry - Test yourself

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch09-shapes-angles-symmetry/check-up-and-sats-style-questions/

Exercise 9Z Check-up (non-calculator) Non-calculator

- 1 Mei is facing South. She makes a quarter turn clockwise. Which way is she facing?



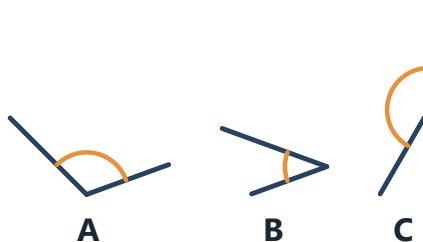
Answer: West

- 2 Is this angle acute, a right angle or obtuse?



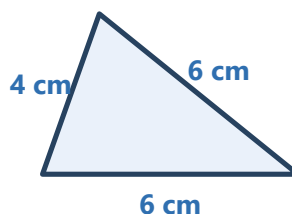
Answer: obtuse

- 3 Write the angles in order, smallest first.



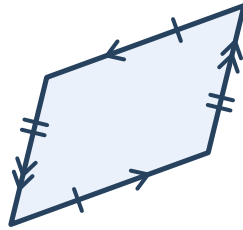
Answer: B, A, C

- 4 Name this triangle. The sides are in centimetres.



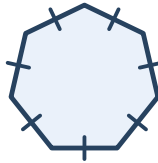
Answer: isosceles

- 5 What is the name of this quadrilateral?



Answer: parallelogram

- 6 Write the full name of this polygon. All sides are equal and all angles are equal.

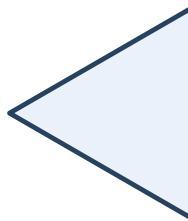


Answer: regular heptagon

- 7 Which shape am I? "I have 4 sides. I have two pairs of equal sides, and the equal sides are next to each other."

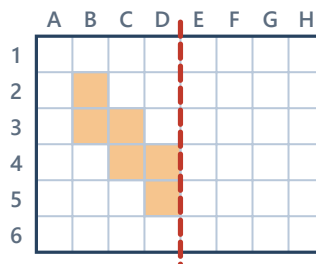
Answer: kite

- 8 How many lines of symmetry does this triangle have?



Answer: 3

- 9 Complete the figure so that it is symmetrical about the mirror line. Write the squares you shade.



Answer: Shade 6 more squares: E4, E5, F3, F4, G2, G3

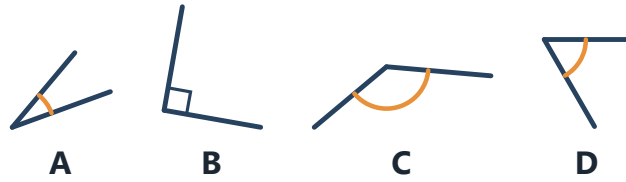
- 10 Write **always**, **sometimes** or **never**: a square is a rectangle.

Answer: Always

Exercise 9X SATs-style questions Non-calculator

- 1 Which angle is obtuse? Write the letter.

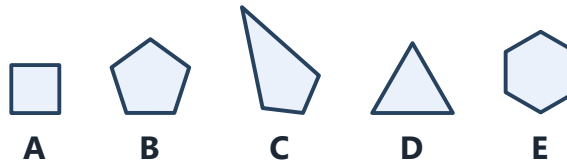
[1 mark]



Answer: C

2 Tick the **two** quadrilaterals. Write the letters.

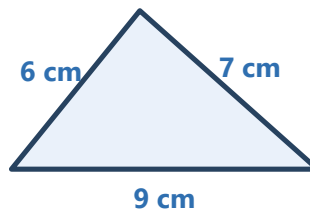
[1 mark]



Answer: A and C

3 What is the name of this triangle? The sides are in centimetres.

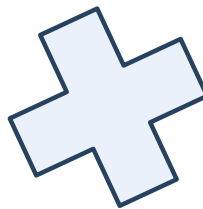
[1 mark]



Answer: scalene

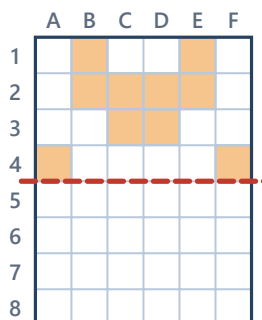
4 How many lines of symmetry does this shape have?

[1 mark]



Answer: 4

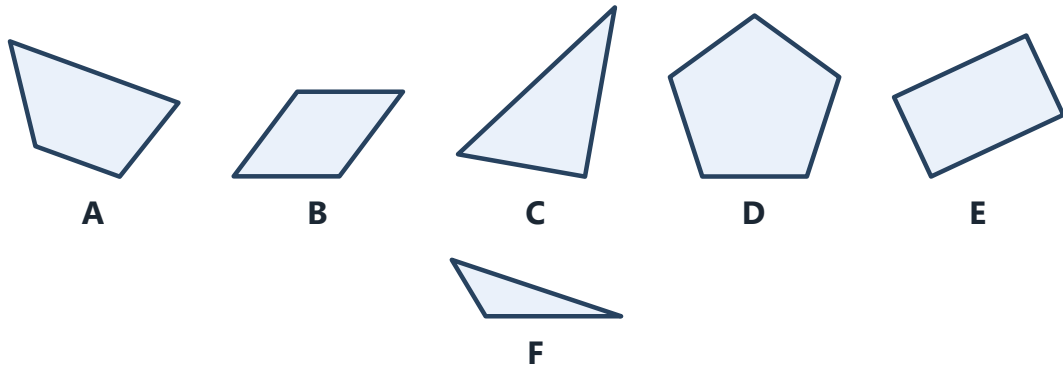
5 Complete the pattern so that it is symmetrical about the mirror line. Write the squares you shade. [2 marks]



Answer: Shade 10 more squares: A5, B7, B8, C6, C7, D6, D7, E7, E8, F5

6 Write the letters of shapes A to F in the correct boxes of the Carroll diagram.

[2 marks]



	has parallel sides	not: has parallel sides
all sides equal		
not: all sides equal		

Answer: yes to "all sides equal" and yes to "has parallel sides": B; yes to "all sides equal" and no to "has parallel sides": D; no to "all sides equal" and yes to "has parallel sides": A, E; no to "all sides equal" and no to "has parallel sides": C, F

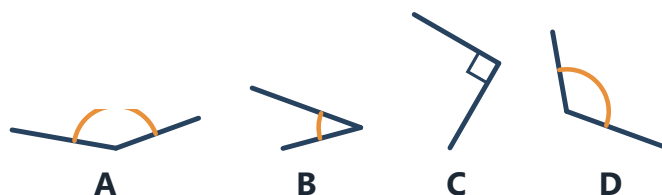
- 7 Which shape am I? "I have 4 sides. I have two pairs of parallel sides. I have four right angles. My sides are not all the same length." Show how you know. [2 marks]

Answer: rectangle

- 8 Ben says, "All rectangles are squares." Is he right? Explain. [2 marks]

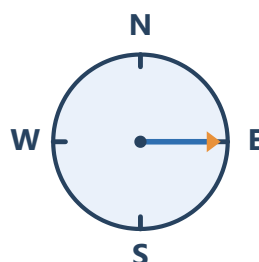
Answer: No. A rectangle with sides 5 and 3 is not a square

- 9 Write the angles in order, smallest first. Then write which angle is the right angle. [3 marks]



Answer: B, C, D, A; the right angle is C

- 10 A robot faces East. It makes a half turn clockwise, then a quarter turn anticlockwise, then a three-quarter turn clockwise. (a) Which way is the robot facing now? (b) How many right angles has the robot turned through altogether? [3 marks]



Answer: (a) East (b) 6 right angles

