

Year 4: Quadrilaterals and parallel lines: answers

Year 4 - Shapes, Angles and Symmetry - Lesson 9.4

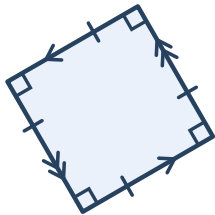
Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch09-shapes-angles-symmetry/quadrilaterals-and-parallel-lines/

Exercise 9D Quadrilaterals

Non-calculator

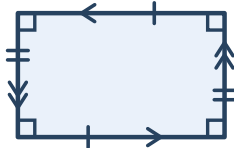
1 Name each quadrilateral. Use the tick marks, arrows and squares to help.

(a)



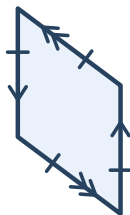
Answer: square

(b)



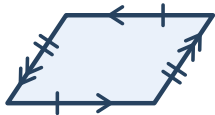
Answer: rectangle

(c)



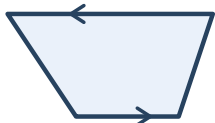
Answer: rhombus

(d)



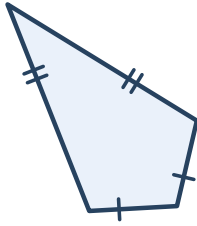
Answer: parallelogram

(e)



Answer: trapezium

(f)



Answer: kite

2 How many right angles does each shape have?

(a) square

Answer: 4

(b) rhombus

Answer: 0

(c) kite

Answer: 0

(d) rectangle

Answer: 4

3 How many pairs of parallel sides does each shape have?

(a) square

Answer: 2

(b) trapezium

Answer: 1

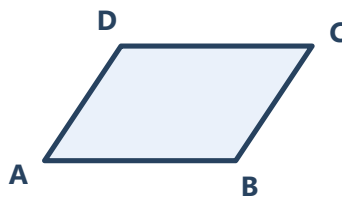
(c) kite

Answer: 0

(d) parallelogram

Answer: 2

4 Name the pairs of parallel sides in this parallelogram.



Answer: AB and CD; BC and DA

5 Rectangle PQRS is drawn. Which sides are perpendicular to PQ?



Answer: QR and SP

6 Which quadrilateral am I? Write its name.

- (a) I have 4 sides. All of my sides are the same length. I have four right angles.

Answer: square

(b)

I have 4 sides. My opposite sides are equal in length. I have four right angles. My sides are not all the same length.

Answer: rectangle

- (c) I have 4 sides. I have exactly one pair of parallel sides.

Answer: trapezium

7 Is each statement **true** or **false**?

- (a) A rectangle has four right angles.

Answer: True

- (b) A rhombus has four right angles.

Answer: False

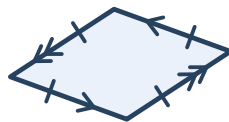
- (c) A kite has two pairs of equal sides.

Answer: True

- (d) A trapezium has two pairs of parallel sides.

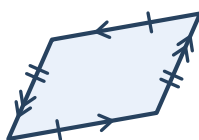
Answer: False

8 Priya says, "This shape is a square because all four sides are equal." Is Priya right? Explain.

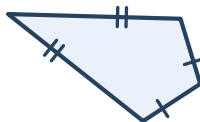


Answer: No. It is a rhombus (no right angles)

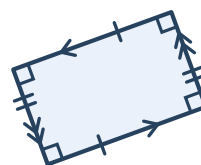
9 Which shape has two pairs of equal sides that are **next to each other**? Write the letter.



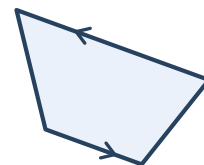
A



B



C



D

Answer: B

10 A shape is cut from corner to corner into two triangles. What kind of triangles are they? Use the full name.

- (a) A rectangle with sides 4 cm and 3 cm is cut along a diagonal.

Answer: right-angled triangle

- (b) A square with sides 3 cm is cut along a diagonal.

Answer: right-angled isosceles triangle

11 Write **always**, **sometimes** or **never** for each sentence.

- (a) A square is a rectangle.

Answer: Always

- (b) A rectangle is a square.

Answer: Sometimes

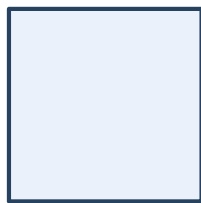
- (c) A rhombus has four right angles.

Answer: Sometimes

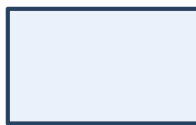
- (d) A trapezium has two pairs of parallel sides.

Answer: Never

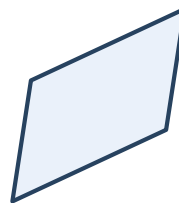
12 Which shape is the odd one out? Explain why.



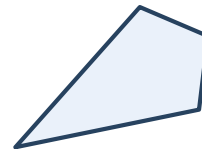
A



B



C



D

Answer: D (the kite): it has no parallel sides, the others have two pairs