

Name:

Exam Style Questions

Quadrilaterals



Corbettmaths

Equipment needed: Pen, pencil & ruler

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 2



Answers and Video Solutions

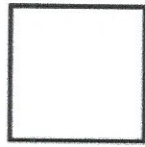


1. The names of five quadrilaterals are given.

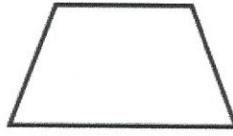


square rhombus rectangle kite trapezium

Three of them are drawn below.



A



B



C

Complete these statements.

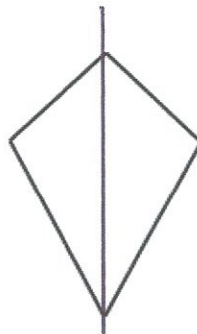
Shape A is called a *square*

Shape B is called a *trapezium*

Shape C is called a *kite*

(3)

2. A quadrilateral is drawn below.



(a) Write down the name of this quadrilateral.

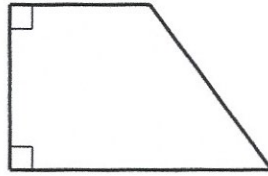
kite

.....
(1)

(b) Draw any lines of symmetry on the quadrilateral.

(1)

3.



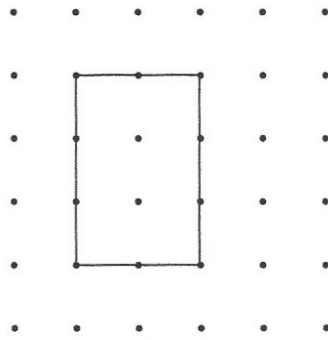
Write down the mathematical name of the shape above.

trapezium
(1)

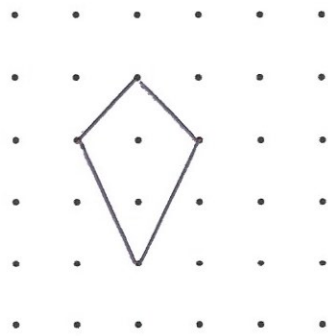
4.



Below is a rectangle drawn on a square dotted grid.

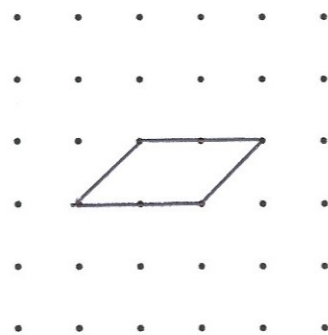


(a) Draw a kite on the grid below.



(1)

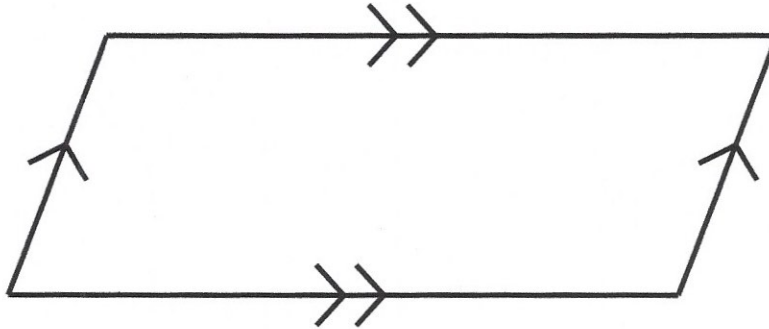
(b) Draw a parallelogram on the grid below.



(1)

5.

A quadrilateral is drawn below.
It has two pairs of parallel sides.



(a) Write down the name of this quadrilateral.

parallelogram
.....
(1)

(b) How many lines of symmetry does the shape have?

0
.....
(1)

(c) Draw a quadrilateral with two lines of symmetry

e.g. rectangle



(1)

6. There are two quadrilaterals below



(a) Write down the names of each quadrilateral.



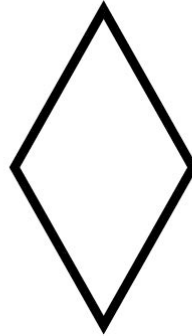
rectangle



parallelogram

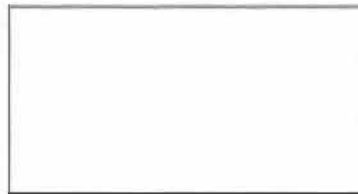
(2)

(b) Draw a rhombus below.



(1)

7. Below is a rectangle.



Tick the correct boxes for the four statements.

	True	False
A rectangle has four right angles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A rectangle has one pair of parallel lines	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A rectangle has four lines of symmetry	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A rectangle has rotational symmetry of order 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(4)

8. Here is a list of quadrilaterals.



kite rectangle rhombus square parallelogram

For each of the following descriptions, choose the correct name from the list.

- (a) All four sides are the same length.
All four angles are equal.

.....*Square*.....
(1)

- (b) Two pairs parallel sides.
Opposite angles are equal.
No lines of symmetry.

.....*parallelogram*.....
(1)

- (c) All four sides are the same length.
There are no right angles.

.....*rhombus*.....
(1)

9. The names of three quadrilaterals are below.



square kite parallelogram

Write each name in the correct position in the table below.

	Line Symmetry	No Line Symmetry
Two pairs of parallel lines	Square	Parallelogram
No parallel lines	kite	

(3)

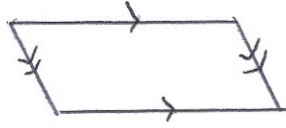
10. Complete the table below.



	Square	Rhombus	Trapezium
Number of pairs of parallel sides	2	2	1
Diagonals always equal in length	Yes	No	No

(4)

11. Draw a quadrilateral that has rotational symmetry of order 2



e.g. Parallelogram or rectangle.

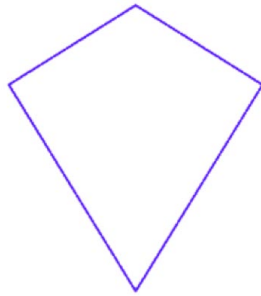
(1)

12. James draws a quadrilateral with two pairs of equal length sides.



James says that the quadrilateral must be a rectangle or a parallelogram.

Explain why James is incorrect.



James could have drawn a kite. (deltoid/arrowhead).

.....
.....

(1)

13. Maisie draws a trapezium.



Tick one box for each statement.

	True	May be true	False
The trapezium has one pair of parallel lines	✓		
The trapezium has one line of symmetry		✓	
The trapezium has rotational symmetry order 2			✓
All sides of the trapezium have different lengths		✓	

(3)

14. James wants to draw quadrilateral CDEF such that



CD = 4cm

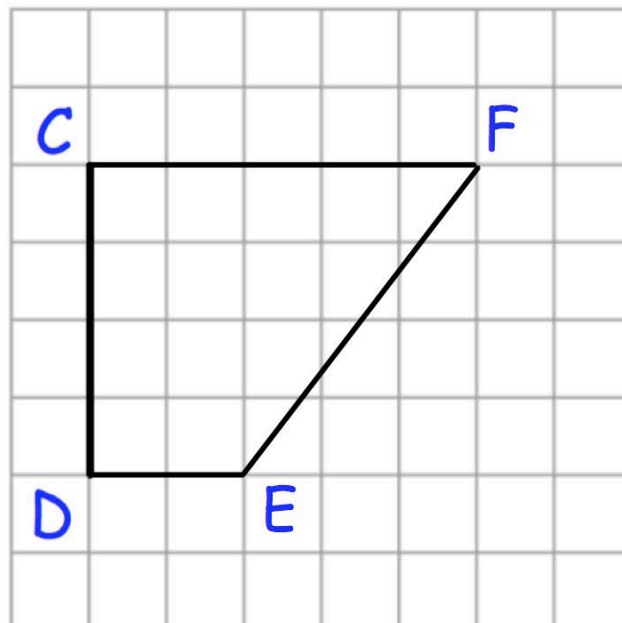
angle CDE = 90°

CD is twice the length of DE

CF is parallel to DE

CF = 5cm

Complete CDEF on the centimetre square grid below.



(3)