

Year 4: Lines of symmetry: worksheet

Year 4 - Shapes, Angles and Symmetry - Lesson 9.6

Name: _____

Date: _____

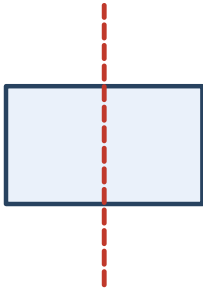
Score: _____

13 questions. Write your answers in the spaces. Answers and step-by-step help are free at websink.site/ks2-sats/maths/year-4/ch09-shapes-angles-symmetry/lines-of-symmetry/

Exercise 9G Lines of symmetry Non-calculator

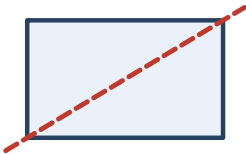
1 Is the dashed line a line of symmetry? Write **yes** or **no**.

(a)



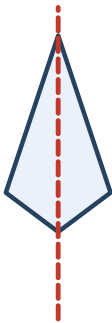
Answer: _____

(b)



Answer: _____

(c)



Answer: _____

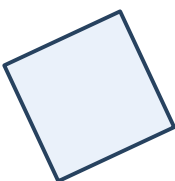
(d)



Answer: _____

2 How many lines of symmetry does each shape have?

(a)



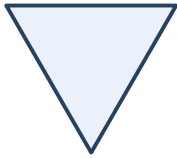
Answer: _____

(b)



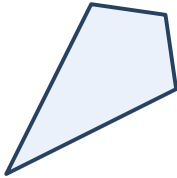
Answer:

(c)



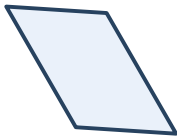
Answer:

(d)



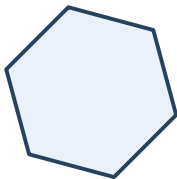
Answer:

(e)



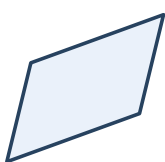
Answer:

(f)

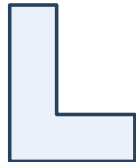


Answer:

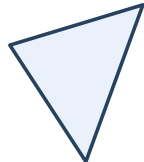
3 Which shapes have **no** lines of symmetry? Write the letters.



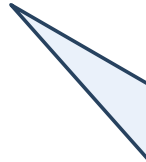
A



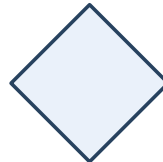
B



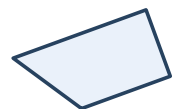
C



D



E



F

Answer:

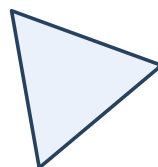
4 Which shape has exactly **one** line of symmetry? Write the letter.



A



B



C



D

Answer:

5 How many lines of symmetry does each letter have?

(a) **H**

Answer:

(b) **A**

Answer:

(c) **Z**

Answer:

(d) **C**

Answer:

6 Look at these capital letters. Write the letters that have...

A D E H M N T V W Z
A D E H M N T V W Z

(a) a vertical line of symmetry (up and down)

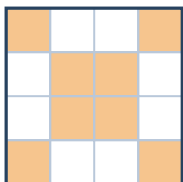
Answer:

(b) a horizontal line of symmetry (across)

Answer:

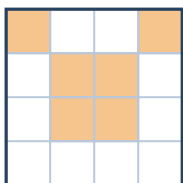
7 How many lines of symmetry does each pattern have? Remember the diagonal lines.

(a)



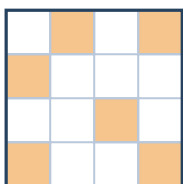
Answer:

(b)



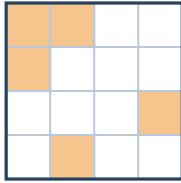
Answer:

(c)



Answer:

(d)



Answer:

8 How many lines of symmetry does each regular polygon have?

(a) a regular heptagon

Answer:

(b) a regular octagon

Answer:

(c) a regular decagon

Answer:

9 Each shape has one line of symmetry. Is the line **vertical**, **horizontal** or **sloping**?

(a)



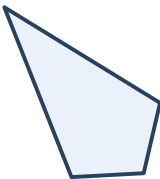
Answer:

(b)



Answer:

(c)

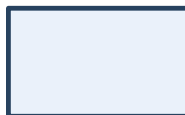


Answer:

10 Ravi folds a square piece of paper so that the two halves match exactly. How many different folds can he make?

Answer:

11 Ali says, "A rectangle has 4 lines of symmetry: 2 diagonals and 2 middle lines." Do you agree? Explain.



Answer:

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

(a) A shape with four equal sides has four lines of symmetry.

Answer:

(b) A regular polygon has the same number of lines of symmetry as sides.

Answer:

13 Which shape am I? "I have 4 sides. My sides are not all the same length. I have two lines of symmetry."

Answer:

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