



**THIRD SPACE
LEARNING**

Symmetry Worksheet

Geometry

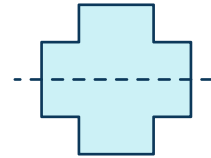
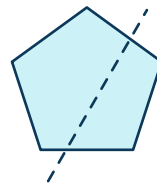
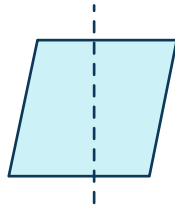
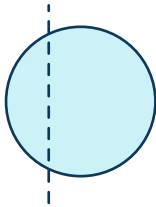
Grades 4 to 5

Skill Questions

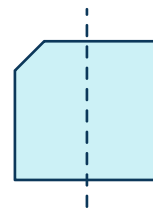
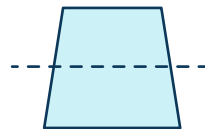
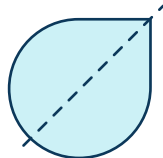
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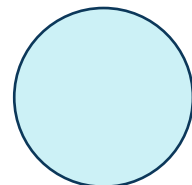
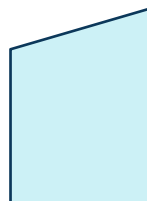
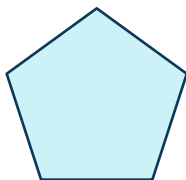
1 Which correctly shows a line of symmetry?



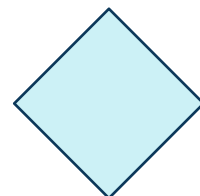
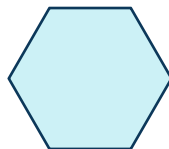
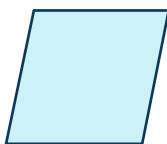
2 Which correctly shows a line of symmetry?



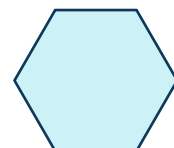
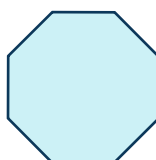
3 Circle the shape that has zero lines of symmetry.



4 Circle the shape that has 2 lines of symmetry.



5 Circle the shape that has 6 lines of symmetry.

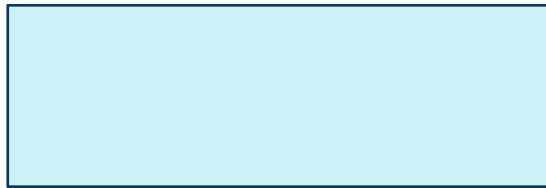


Symmetry Worksheet | Grades 4 to 5

- 6 How many lines of symmetry does a square have? Draw each line of symmetry it has.



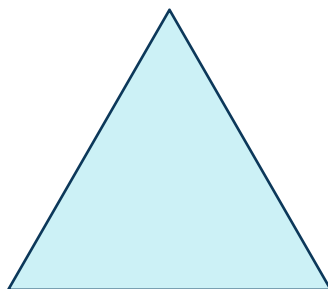
- 7 How many lines of symmetry does a rectangle have? Draw each line of symmetry it has.



Answer



- 8 How many lines of symmetry does an equilateral triangle have? Draw each line of symmetry it has.

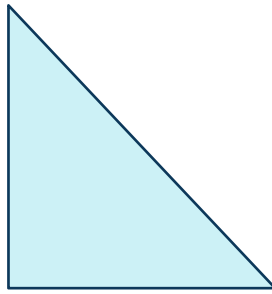


Answer



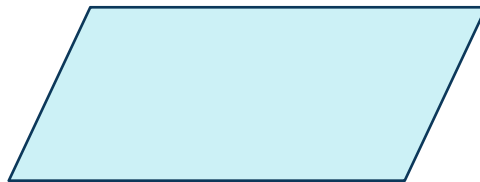
Symmetry Worksheet | Grades 4 to 5

- 9 How many lines of symmetry does an isosceles right triangle have? Draw each line of symmetry it has.



Answer

- 10 How many lines of symmetry does a parallelogram have? Draw each line of symmetry it has.



Answer

Applied Questions

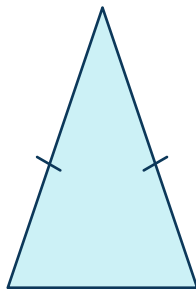
11 Alexa describes a shape to Henry using the following information:

- 4 sides
- 4 right angles
- 2 lines of symmetry

Henry guesses that Alex is describing a square. Is he correct? Why or why not?

Answer

12 Oliver says that the number of lines of symmetry in the triangle is the same as the number of equal sides it has. Is Oliver correct? Why or why not?



Answer

13 Is the following statement always true, sometimes true, or never true? Explain.

The number of lines of symmetry in a shape equals its number of sides.

Answer

- 14 Kam writes her name in all capital letters and says that each letter in her name has one line of symmetry. Is she correct? If so, draw the lines of symmetry on each letter.

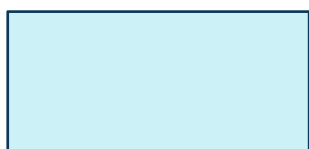
KAM

Answer

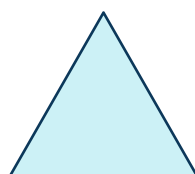
- 15 Sam draws 3 shapes. The total number of lines of symmetry between the 3 shapes is 10. Which 3 shapes could Sam have drawn?



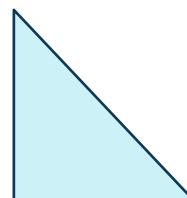
Square



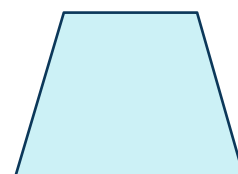
Rectangle



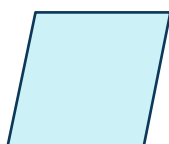
Equilateral
triangle



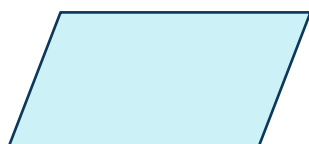
Right
triangle



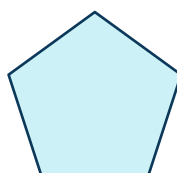
Trapezoid



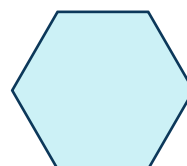
Rhombus



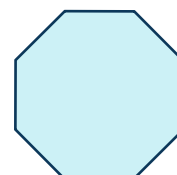
Parallelogram



Regular
pentagon



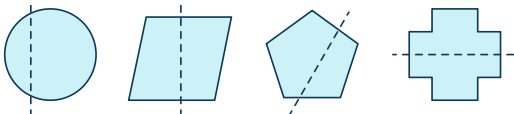
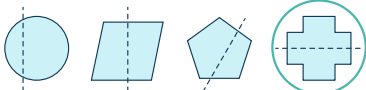
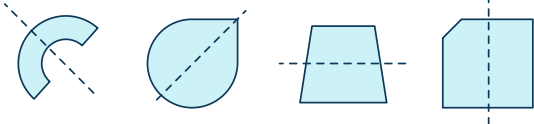
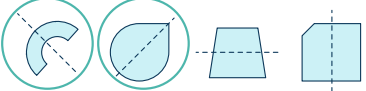
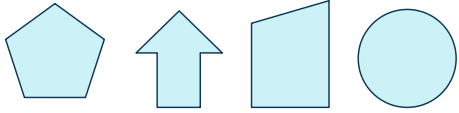
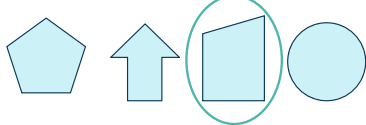
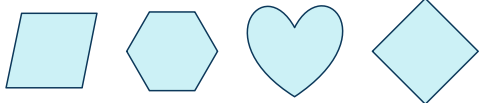
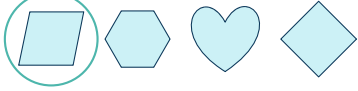
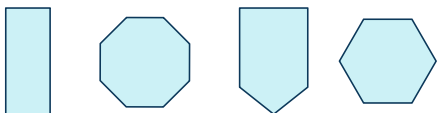
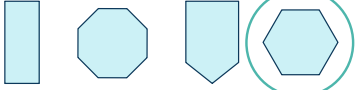
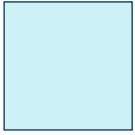
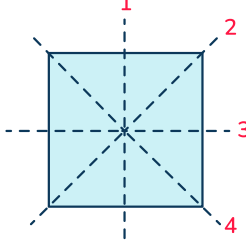
Regular
hexagon




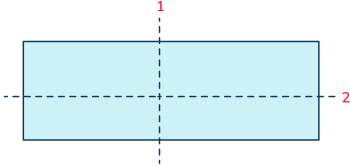
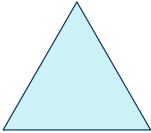
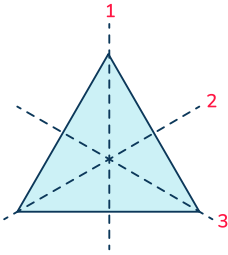
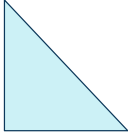
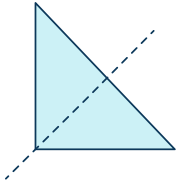
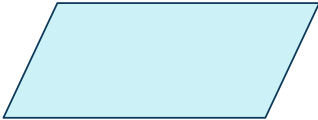
Regular
octagon

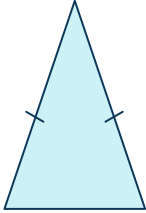
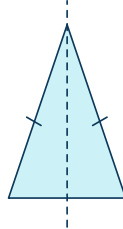

Answer





















Answers

Question number	Question	Answers	Standard
1	Which correctly shows a line of symmetry? 		4.G.A.3
2	Which correctly shows a line of symmetry? 		4.G.A.3
3	Circle the shape that has zero lines of symmetry. 		4.G.A.3
4	Circle the shape that has 2 lines of symmetry. 		4.G.A.3
5	Circle the shape that has 6 lines of symmetry. 		4.G.A.3
6	How many lines of symmetry does a square have? Draw each line of symmetry it has. 	4 	4.G.A.3

Symmetry Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
7	<p>How many lines of symmetry does a rectangle have? Draw each line of symmetry it has.</p> 	<p>2</p> 	4.G.A.3
8	<p>How many lines of symmetry does an equilateral triangle have? Draw each line of symmetry it has.</p> 	<p>3</p> 	4.G.A.3
9	<p>How many lines of symmetry does an isosceles right triangle have? Draw each line of symmetry it has.</p> 	<p>1</p> 	4.G.A.3
10	<p>How many lines of symmetry does a parallelogram have? Draw each line of symmetry it has.</p> 	<p>0</p>	4.G.A.3
11	<p>Alexa describes a shape to Henry using the following information:</p> <ul style="list-style-type: none"> • 4 sides • 4 right angles • 2 lines of symmetry <p>Henry guesses that Alex is describing a square. Is he correct? Why or why not?</p>	<p>No, Alexa can't be describing a square because a square has 4 lines of symmetry.</p>	4.G.A.3

Question number	Question	Answers	Standard
12	<p>Oliver says that the number of lines of symmetry in the triangle is the same as the number of equal sides it has. Is Oliver correct? Why or why not?</p> 	<p>No, he is not correct. An isosceles triangle has 2 equal sides but only 1 line of symmetry.</p> 	4.G.A.3
13	<p>Is the following statement always true, sometimes true, or never true? Explain.</p> <p>The number of lines of symmetry in a shape equals its number of sides.</p>	<p>This statement is sometimes true.</p> <p>If a shape is a regular polygon (all of its sides and angles are equal) then its number of lines of symmetry will equal its number of sides. If it is not a regular polygon, like a rectangle or trapezoid, its number of lines of symmetry will not be equal to its number of sides.</p>	4.G.A.3
14	<p>Kam writes her name in all capital letters and says that each letter in her name has one line of symmetry. Is she correct? If so, draw the lines of symmetry on each letter.</p> <p>KAM</p>		4.G.A.3




Question number	Question	Answers	Standard
15	<p>Sam draws 3 shapes. The total number of lines of symmetry between the 3 shapes is 10. Which 3 shapes could Sam have drawn?</p> <div><div> Square</div><div> Rectangle</div><div> Equilateral triangle</div><div> Right triangle</div><div> Trapezoid</div><div> Rhombus</div><div> Parallelogram</div><div> Regular pentagon</div><div> Regular hexagon</div><div> Regular octagon</div></div>	<p>Sam could have drawn a square (4), a regular pentagon (5), and a trapezoid (1) or any another combination of 3 shapes that equal 10 lines of symmetry.</p> <div><div> 4 Square</div><div> 2 Rectangle</div><div> 3 Equilateral triangle</div><div> 1 Right triangle</div><div> 1 Trapezoid</div><div> 2 Rhombus</div><div> 0 Parallelogram</div><div> 5 Regular pentagon</div><div> 6 Regular hexagon</div><div> 8 Regular octagon</div></div>	4.G.A.3

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