



**THIRD SPACE
LEARNING**

Perpendicular Lines Worksheet

Geometry

Grades 4 to 5

Skill Questions

Name:

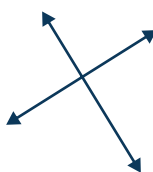
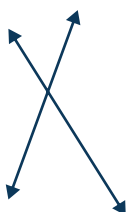
Date:

- 1 Perpendicular lines are two lines that intersect and create a _____ degree angle.

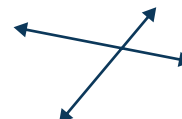
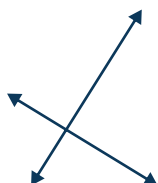
Answer

- 2 Draw a set of perpendicular lines and label the right angle.

- 3 Which set of lines appears to be perpendicular?

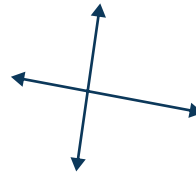
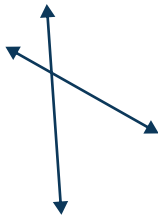


- 4 Which set of lines appears to be perpendicular?

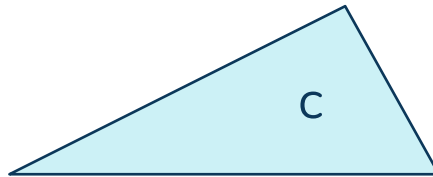
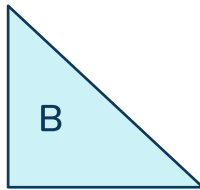
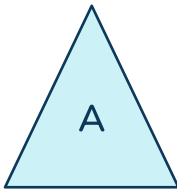


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5 Which set of lines appears to be perpendicular?

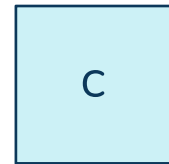
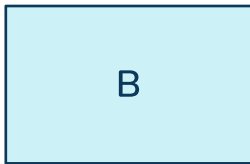
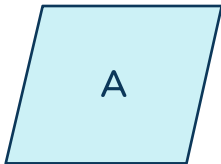


6 Which shape(s) have perpendicular lines?



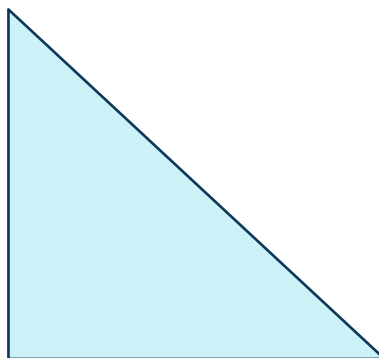
Answer

7 Which shape does not have perpendicular lines?



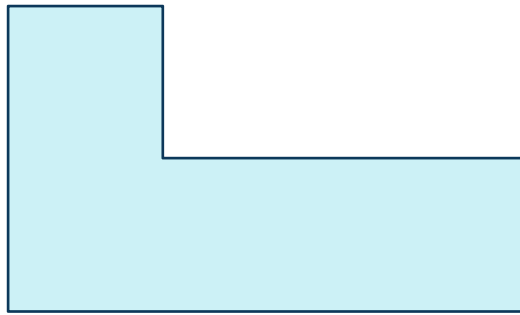
Answer

8 Highlight or trace the perpendicular lines on the following shape.



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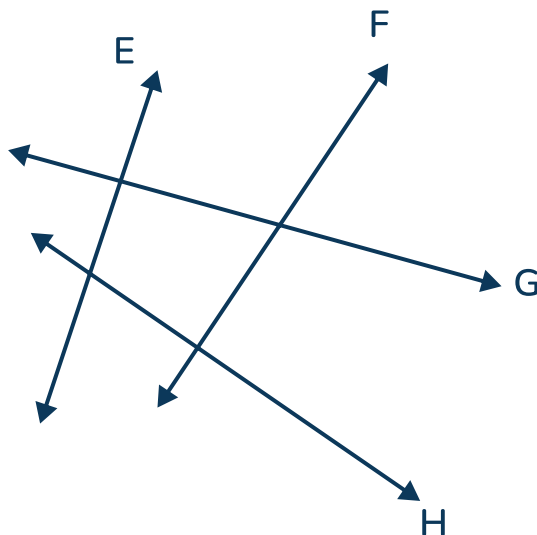
- 9 Highlight or trace the perpendicular lines on the following shape.



-
- 10 Draw a shape with at least 1 pair of perpendicular lines and mark the right angles.

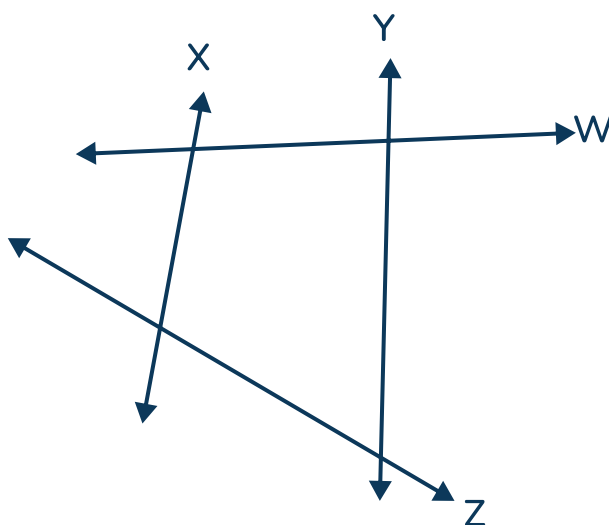
Applied Questions

- 11 Which of the given lines appear to be perpendicular with each other?



Answer

- 12 Which of the given lines appear to be perpendicular with each other?



Answer

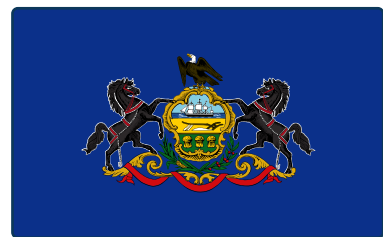
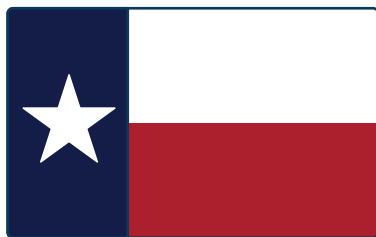
13 Derrick was given clues about a shape he is being asked to draw.

- It's a polygon.
- It has one pair of perpendicular lines.
- It has one pair of parallel lines.

Draw the shape that Derrick is being asked to draw.

Answer

14 The students in Mrs. Ramos' class are comparing the flags of different US state flags.



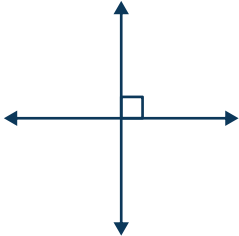
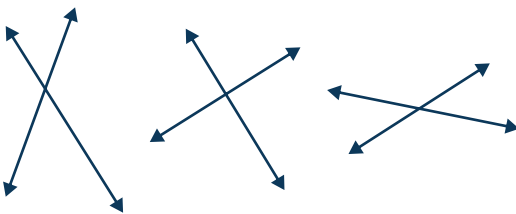
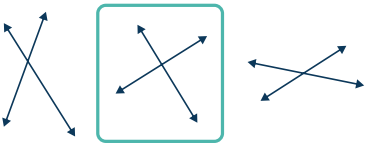
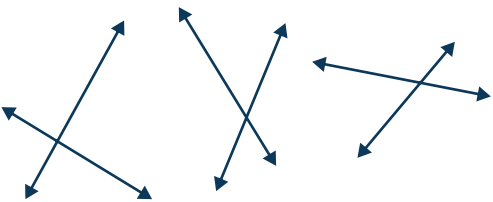
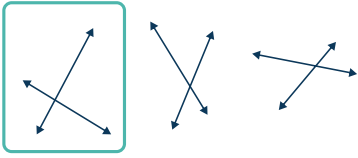
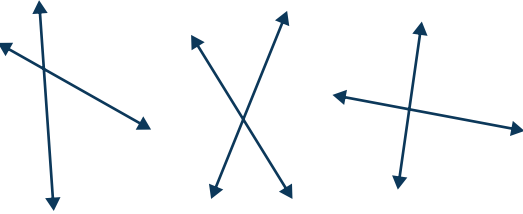
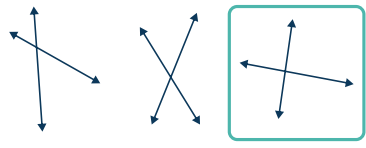
Carlos says that only the Texas flag has perpendicular lines. Jacory says that they all have perpendicular lines. Who do you agree with, Carlos or Jacory?

Answer

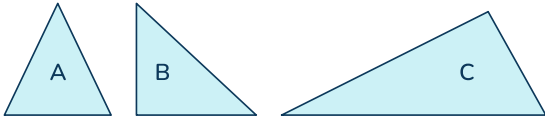
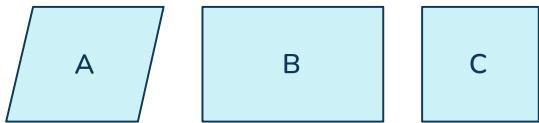
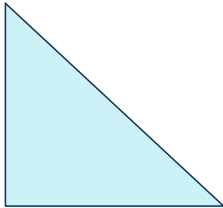
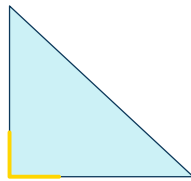
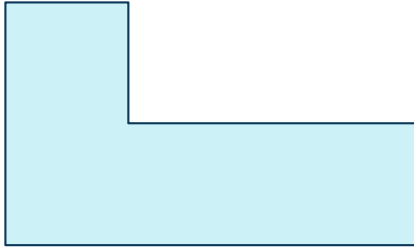
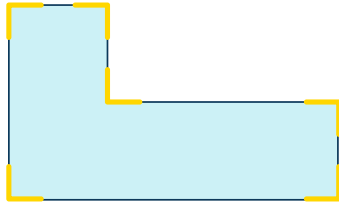
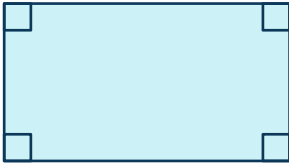
15 Gretchen states that all trapezoids have one set of perpendicular lines. Is Gretchen correct in her thinking? Why or why not?

Answer

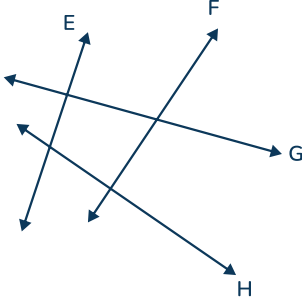
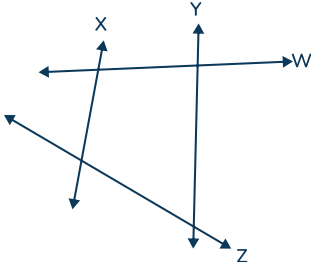
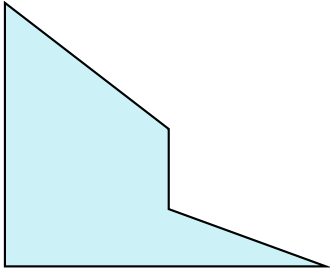

Answers

Question number	Question	Answers	Standard
1	Perpendicular lines are two lines that intersect and create a _____ degree angle.	90	4.G.A.1
2	Draw a set of perpendicular lines and label the right angle.		4.G.A.1
3	Which set of lines appears to be perpendicular? 		4.G.A.1
4	Which set of lines appears to be perpendicular? 		4.G.A.1
5	Which set of lines appears to be perpendicular? 		4.G.A.1

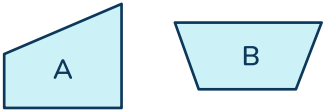
Perpendicular Lines Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
6	Which shape(s) have perpendicular lines? 	Shapes B and C have perpendicular lines.	4.G.A.1
7	Which shape does not have perpendicular lines? 	Shape A does not have perpendicular lines.	4.G.A.1
8	Highlight or trace the perpendicular lines on the following shape. 	Students should highlight 1 pair of perpendicular lines. 	4.G.A.1
9	Highlight or trace the perpendicular lines on the following shape. 	Students should highlight 6 pairs of perpendicular lines. 	4.G.A.1
10	Draw a shape with at least 1 pair of perpendicular lines and mark the right angles.	Students' answers will vary. Example, 	4.G.A.1

Perpendicular Lines Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
11	<p>Which of the given lines appear to be perpendicular with each other?</p> 	<p>Line E and Line G Line F and Line H</p>	4.G.A.1
12	<p>Which of the given lines appear to be perpendicular with each other?</p> 	Line W and Line Y	4.G.A.1
13	<p>Derrick was given clues about a shape he is being asked to draw.</p> <ul style="list-style-type: none"> • It's a polygon. • It has one pair of perpendicular lines. • It has one pair of parallel lines. <p>Draw the shape that Derrick is being asked to draw.</p>	<p>Example answer:</p> 	4.G.A.1
14	<p>The students in Mrs. Ramos' class are comparing the flags of different US state flags.</p>  <p>Carlos says that only the Texas flag has perpendicular lines. Jacory says that they all have perpendicular lines. Who do you agree with, Carlos or Jacory?</p>	<p>Students should recognize that because all of the flags are rectangles, all 3 of the flags have perpendicular lines (the sides of the flags).</p>	4.G.A.1

Perpendicular Lines Worksheet | Grades 4 to 5 | Answers




Question number	Question	Answers	Standard
15	Gretchen states that all trapezoids have one set of perpendicular lines. Is Gretchen correct in her thinking? Why or why not?	<p>Gretchen is incorrect in her thinking. While some trapezoids do have a set of perpendicular lines (shape A), it is not a characteristic of trapezoids, and some do not have perpendicular lines (shape B).</p>  <p>Gretchen may have confused perpendicular lines with parallel lines as every trapezoid has one pair of parallel sides.</p>	4.G.A.1

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