THIRD SPACE LEARNING

Trapezoid Worksheet

Geometry

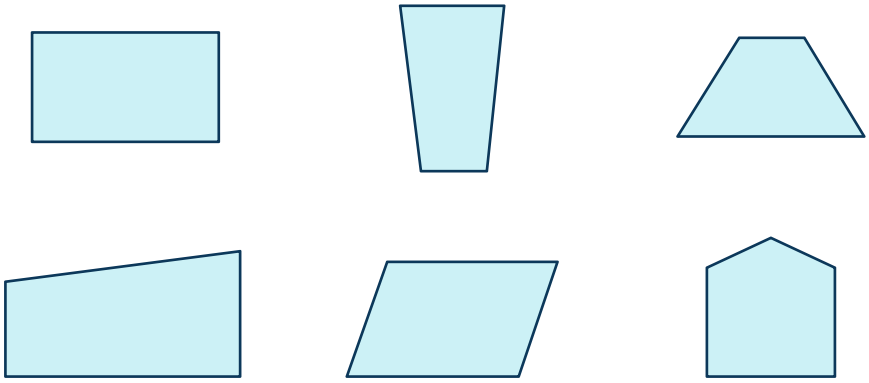
Grades 4 to 5

Skill Questions

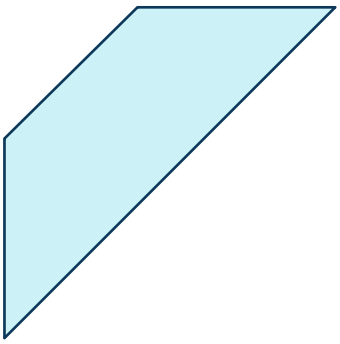
Name: .....

Date: .....

1 Circle the trapezoids.

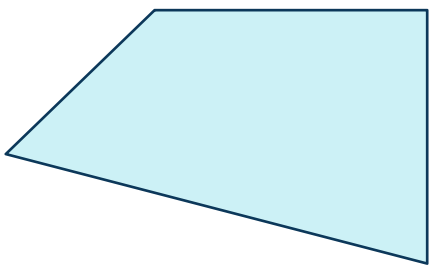


2 Is this shape a trapezoid? Why or why not?



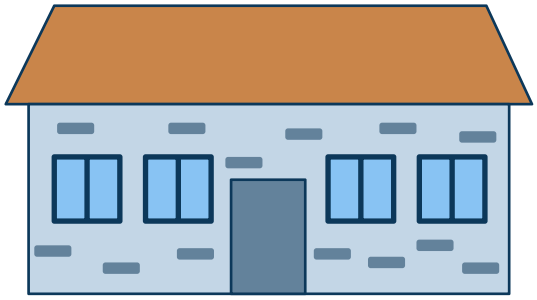
Answer

3 Is this shape a trapezoid? Why or why not?

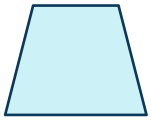


Answer

4 Outline the trapezoid in the image.

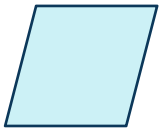


5 What attribute does a trapezoid have in common with all 3 shapes shown below?

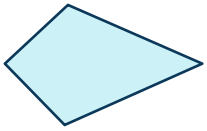


trapezoid

square



rhombus



kite

Answer

6 Which of the following words can go in the blank to make the sentence true?
rectangle, pentagon, quadrilateral, square, parallelogram, rhombus

A trapezoid is also a _____.

Answer

7 Is the following statement never true, sometimes true, or always true?

A trapezoid has 2 right angles.

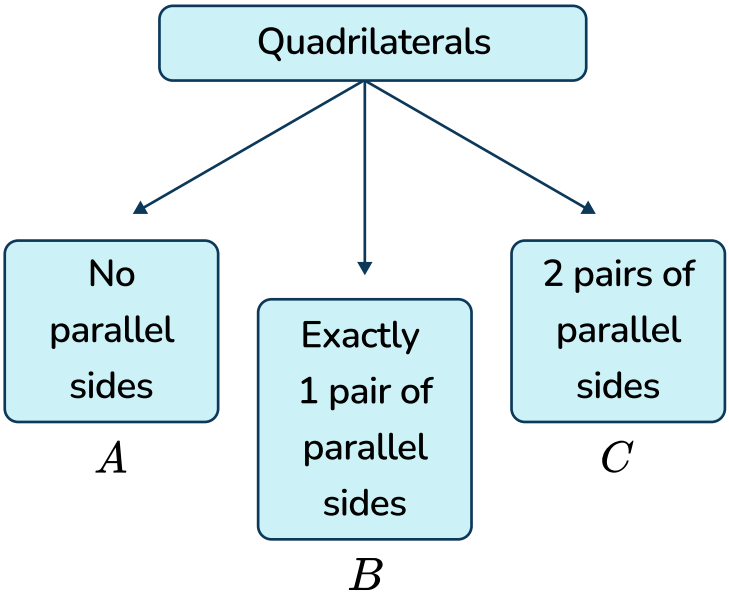
Answer

8 Is the following statement never true, sometimes true, or always true?

The opposite sides of a trapezoid are equal.

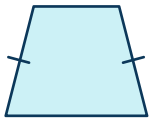
Answer

9 Which section of the diagram does a trapezoid belong in?

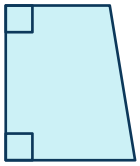


Answer

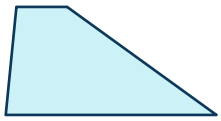
10 Match each trapezoid to its specific type.



right trapezoid



scalene trapezoid



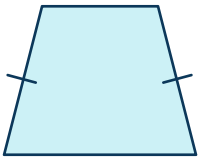
isosceles trapezoid

Applied Questions

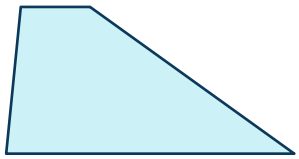
11 Hudson says that any shape with at least one pair of parallel sides can be classified as a trapezoid, such as a square. Is he correct? Explain.

Answer

12 Explain the difference between a scalene trapezoid and an isosceles trapezoid.



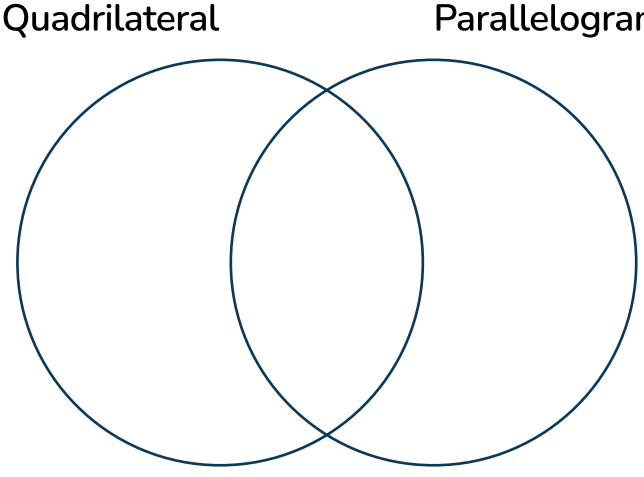
isosceles trapezoid



scalene trapezoid

Answer

13 Write 'trapezoid' in the correct section of the Venn diagram. Explain why you placed it there.



Answer

14 During class, students are asked to draw a quadrilateral that has exactly one pair of parallel sides. Sarah draws a quadrilateral with sides measuring 8 cm, 6 cm, 8 cm, and 12 cm. The sides measuring 6 cm and 12 cm are parallel to each other. Mika tells Sarah that her shape is also a trapezoid.

Draw Sarah's shape.
Is Mika correct? Explain.

Answer

15 Lily, Jack, and Emma each drew a different quadrilateral on their paper.

Lily's quadrilateral:

- Has one pair of parallel sides.
- The non-parallel sides are equal in length.
- The lengths of the sides are 6 cm, 8 cm, 6 cm, and 12 cm.

Jack's quadrilateral:

- Has one pair of parallel sides.
- The lengths of the sides are 4 m, 5 m, 5 m, and 8 m.
- Has two right angles.

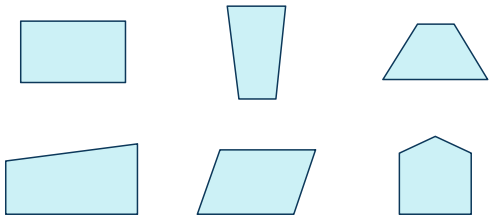
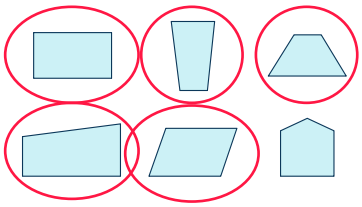
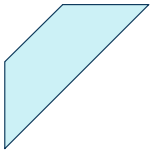
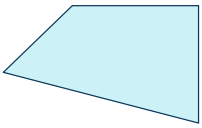
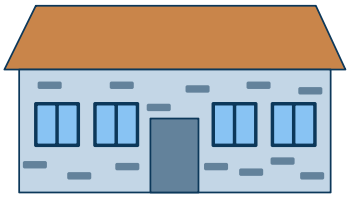
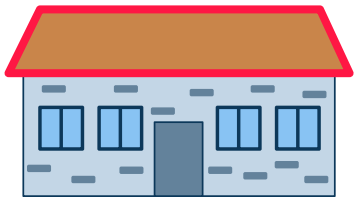
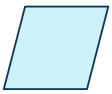
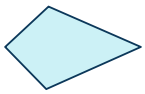
Emma's quadrilateral:

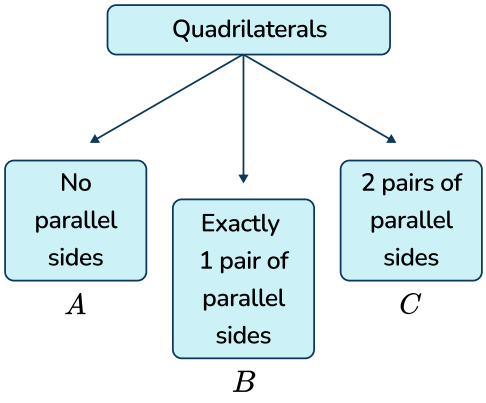
- Has two pairs of parallel sides.
- The lengths of the sides are 9 cm, 9 cm, 6 cm, and 6 cm.
- Has four right angles.

- What specific type of quadrilateral did each student draw?

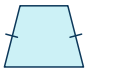
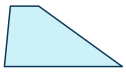
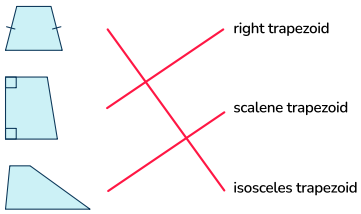
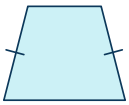
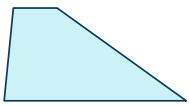
Answer

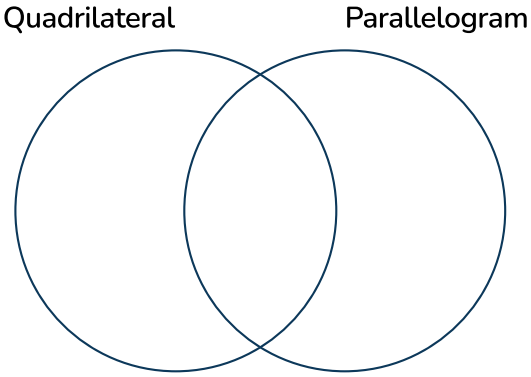
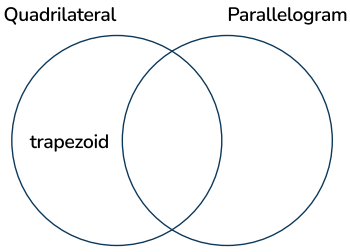
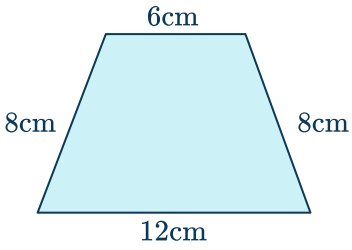
Answers

Question number	Question	Answers	Standard
1	Circle the trapezoids. 		5.G.B.3
2	Is this shape a trapezoid? Why or why not? 	Yes because it has all of the properties of a trapezoid. (4 sides, 1 pair of parallel lines)	5.G.B.3
3	Is this shape a trapezoid? Why or why not? 	No. Although it has 4 sides, it does not have any parallel sides.	5.G.B.3
4	Outline the trapezoid in the image. 		5.G.B.3
5	What attribute does a trapezoid have in common with all 3 shapes shown below?  trapezoid  square  rhombus  kite	They all have 4 sides. (or they are all quadrilaterals.)	5.G.B.3 5.G.B.4

Question number	Question	Answers	Standard
6	Which of the following words can go in the blank to make the sentence true? rectangle, pentagon, quadrilateral, square, parallelogram, rhombus A trapezoid is also a _____.	quadrilateral	5.G.B.3 5.G.B.4
7	Is the following statement never true, sometimes true, or always true? A trapezoid has 2 right angles.	This statement is sometimes true. A trapezoid can have 2 right angles; it is then called a right trapezoid.	5.G.B.3
8	Is the following statement never true, sometimes true, or always true? The opposite sides of a trapezoid are equal.	This statement is sometimes true. In an isosceles trapezoid, one pair of opposite sides is equal.	5.G.B.3
9	Which section of the diagram does a trapezoid belong in?  	Section B	5.G.B.3 5.G.B.4

Trapezoid Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
10	Match each trapezoid to its specific type.  right trapezoid  scalene trapezoid  isosceles trapezoid		5.G.B.3 5.G.B.4
11	Hudson says that any shape with at least one pair of parallel sides can be classified as a trapezoid, such as a square. Is he correct? Explain.	No, he is incorrect. A trapezoid has exactly one pair of parallel sides.	5.G.B.3 5.G.B.4
12	Explain the difference between a scalene trapezoid and an isosceles trapezoid.  isosceles trapezoid  scalene trapezoid	A scalene trapezoid is a quadrilateral with one pair of parallel sides where none of the sides are equal in length. An isosceles trapezoid is a quadrilateral with one pair of parallel sides where the non-parallel sides (legs) are equal in length and the base angles are equal. Another difference is the lines of symmetry. An isosceles trapezoid has 1 line of symmetry whereas a scalene trapezoid has no lines of symmetry.	5.G.B.3

Question number	Question	Answers	Standard
13	Write ‘trapezoid’ in the correct section of the Venn diagram. Explain why you placed it there. 	A trapezoid is a quadrilateral because it has 4 sides. It is not a parallelogram because it only has 1 pair of parallel sides. Therefore, it belongs only in the quadrilateral part of the diagram. 	5.G.B.3 5.G.B.4
14	During class, students are asked to draw a quadrilateral that has exactly one pair of parallel sides. Sarah draws a quadrilateral with sides measuring 8 cm, 6 cm, 8 cm, and 12 cm. The sides measuring 6 cm and 12 cm are parallel to each other. Mika tells Sarah that her shape is also a trapezoid. Draw Sarah’s shape. Is Mika correct? Explain.	 Yes, her shape is a trapezoid since it has 4 sides and 1 set of parallel sides.	5.G.B.3 5.G.B.4

Question number	Question	Answers	Standard
15	Lily, Jack, and Emma each drew a different quadrilateral on their paper. Lily's quadrilateral: • Has one pair of parallel sides. • The non-parallel sides are equal in length. • The lengths of the sides are 6 cm, 8 cm, 6 cm, and 12 cm. Jack's quadrilateral: • Has one pair of parallel sides. • The lengths of the sides are 4 m, 5 m, 5 m, and 8 m. • Has two right angles. Emma's quadrilateral: • Has two pairs of parallel sides. • The lengths of the sides are 9 cm, 9 cm, 6 cm, and 6 cm. • Has four right angles. What specific type of quadrilateral did each student draw?	Lily: isosceles trapezoid Jack: right trapezoid Emma: rectangle	5.G.B.3 5.G.B.4

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