

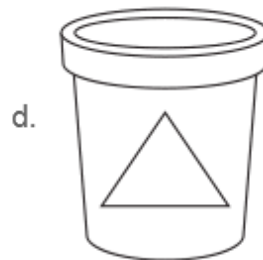
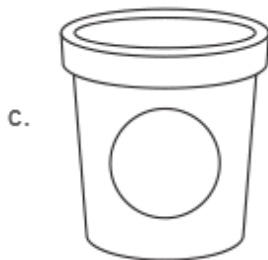
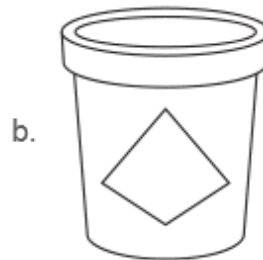
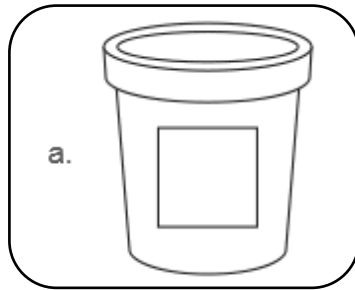


Level 1: Geometry Midtest Answer Key

Question 1:

Patty is a market research analyst. She found that people are more likely to buy yogurt with a logo in the shape of a rhombus or parallelogram.

Which yogurt container will people most likely buy?



Question 2:

A graphic designer drew this shape.



Which term **best** describes the designer's shape?

a. parallelogram

b. quadrilateral

c. rhombus

d. square

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Question 3:

Jia built a frame for a deck on a house. The shape of the frame is shown below.



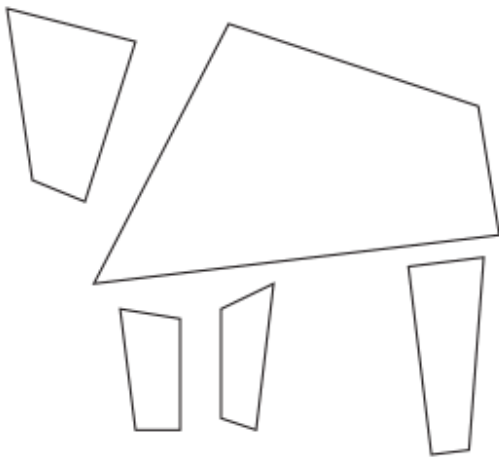
The shape of the frame must be a rectangle.

Which changes will fix the shape of Jia's frame? (Check all that apply.)

- ☐ Change the sides so they are not parallel.
- ☒ Change all four angles to right angles.
- ☒ Change the angles so that they are equal.
- ☐ Change the side lengths so that they are equal.

Question 4:

Butrus is an animator. He drew this sketch of an animal using shapes.



What is true about the shapes Butrus drew?

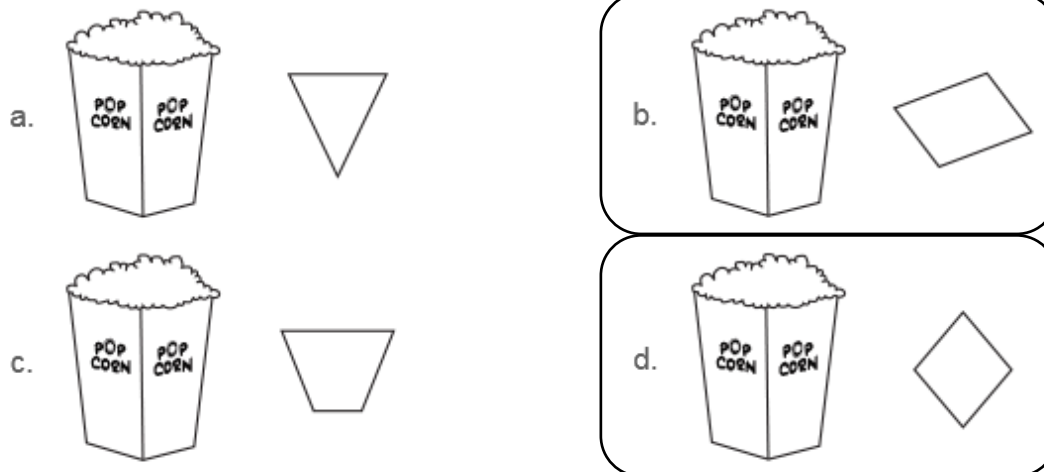
- a. They are all squares.
- b. They are all rectangles.
- ☒ c. They are all quadrilaterals.
- d. They are all parallelograms.

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Question 5:

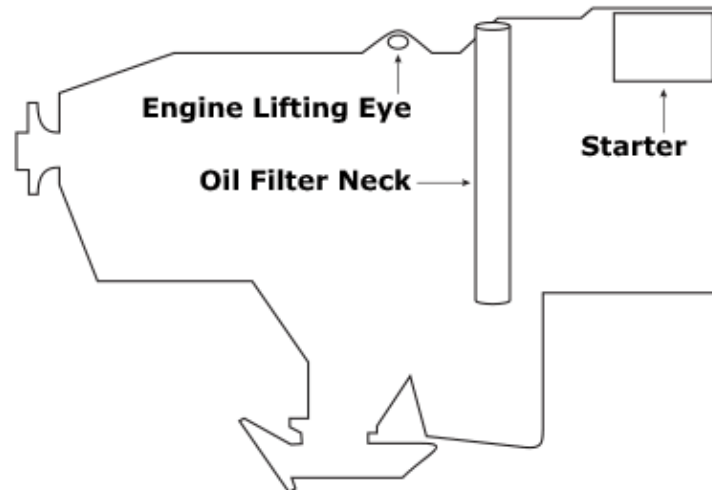
Kalista is designing a popcorn label for a movie theater. The shape around the word "popcorn" on the label must be a parallelogram.

Which label could be Kalista's? (Select all that apply.)



Question 6:

Sarah fixes electronic aircraft equipment. She is studying this diagram.



Which part on the diagram is a quadrilateral?

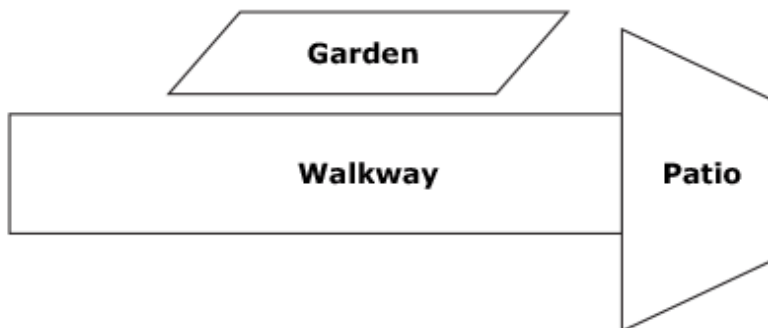
- ☒ a. Starter only
- ☐ b. Engine Lifting Eye only
- ☐ c. Engine Lifting Eye and Starter only
- ☐ d. Oil Filler Neck and Starter only

Continue ➡



Question 7:

A construction manager is drawing a layout for a backyard. She drew three shapes to represent a garden, a walkway, and a patio.



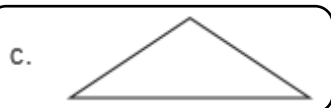
How many shapes on the layout are parallelograms?

shapes

Question 8:

An architect wants a window shaped like an obtuse triangle.

Which triangle should he use to show the shape of the window?



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Question 9:

An artist is designing a graphic for a company. She wants to use a quadrilateral with **no** perpendicular sides.

Which shape could she draw?

- a. equilateral triangle
- b. right triangle
- c. rectangle
- ☒ d. rhombus

Question 10:

A manager is reviewing the work of a graphic artist. The artist drew these shapes.



The manager made this statement about the shapes. Chose the words that make the statement **true**.

These shapes are not because the opposite sides are not

☒ a. parallelograms ☐ b. quadrilaterals

or in length.

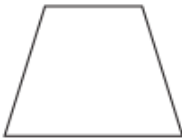
☒ a. parallel ☐ b. perpendicular ☒ a. equal ☐ b. unequal

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Question 11:

An artist has two drafts for a logo.



Draft 1



Draft 2

In Draft 2, the artist added 1 triangle to the logo to create a new shape.

Which statement is true?

- a. Drafts 1 and 2 are parallelograms.
- b. Draft 1 and Draft 2 are trapezoids.
- c. Draft 1 is a parallelogram. Draft 2 is not a parallelogram.
- ☒ d. Draft 1 is not a parallelogram. Draft 2 is a parallelogram.

Question 12:

An artist drew a polygon. She divided the polygon into two isosceles trapezoids.

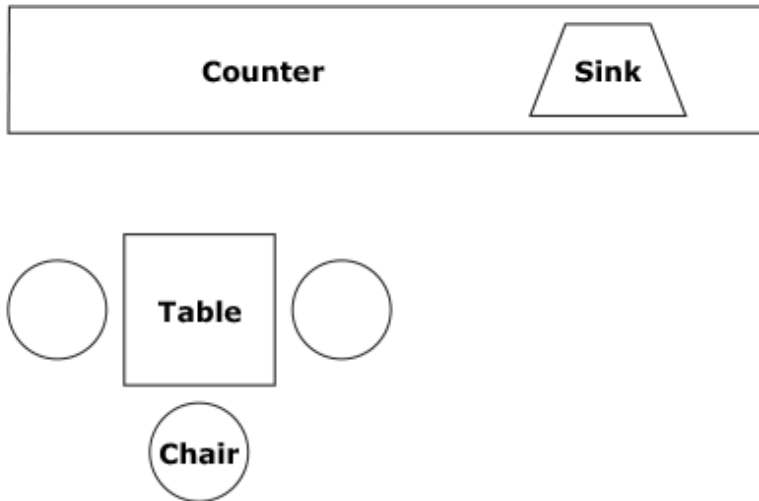
What is the name of the polygon?

- a. circle
- b. octagon
- ☒ c. hexagon
- d. pentagon



Question 13:

The diagram shows the layout for a kitchen.



Which item on the layout is both a parallelogram and a rhombus?

- a. counter
- ☒ b. table
- c. chair
- d. sink

Question 14:

An illustrator combines a triangle and a rhombus into new shape.

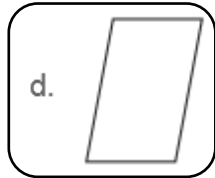
Which of the following could be the new shape?

- a. kite
- ☒ b. trapezoid
- c. parallelogram
- d. rectangle



Question 15:

Which shape is a quadrilateral, but **not** a rhombus? Mark all that apply.



Question 16:

A graphic designer uses two shapes for a project. Each shape is a quadrilateral but only one is a rectangle.

Which pair of shapes could the designer use?



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Question 17:

Which statement is FALSE?

- a. A square is a rhombus.
- b. A kite is a rectangle.**
- c. A square is a rectangle.
- d. A trapezoid is a quadrilateral.

Question 18:

The shape of a logo is a parallelogram with four congruent sides and four right angles.

What is the name of this shape?

Square

Question 19:

Look at the figures below.



Figure 1



Figure 2



Figure 3

Which figures are parallelograms?

- a. Figure 1 only
- b. Figure 2 only
- c. Figures 1 and 3 only**
- d. Figures 1, 2, and 3

Continue ➡



Question 20:

Look at the figures below.



Figure 1



Figure 2

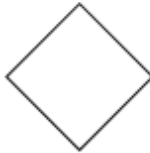


Figure 3

Which figures are rectangles?

- a. Figure 2 only
- b. Figures 1 and 2 only
- c. Figures 1 and 3 only
- d. Figures 1, 2, and 3