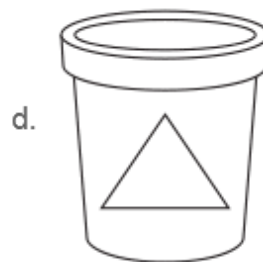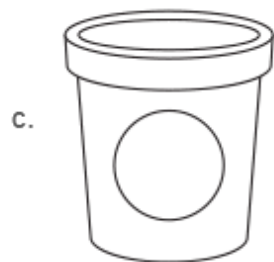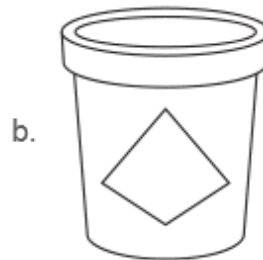# Level 1: Geometry Midtest

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?

a.

b.

c.

d.

Question 2:

A graphic designer drew this shape.

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

a. parallelogram

b. quadrilateral

c. rhombus

d. square

Question 3:

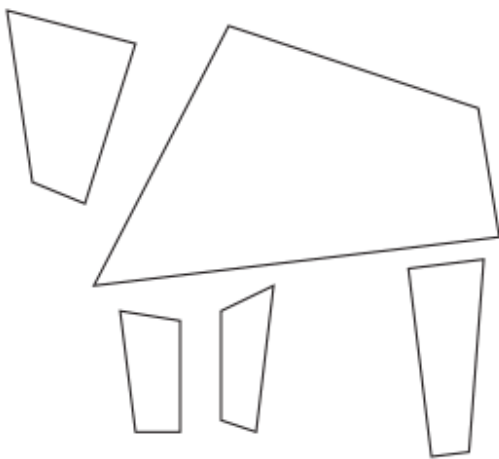Jia built a frame for a deck on a house. The shape of the frame is shown below.

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.
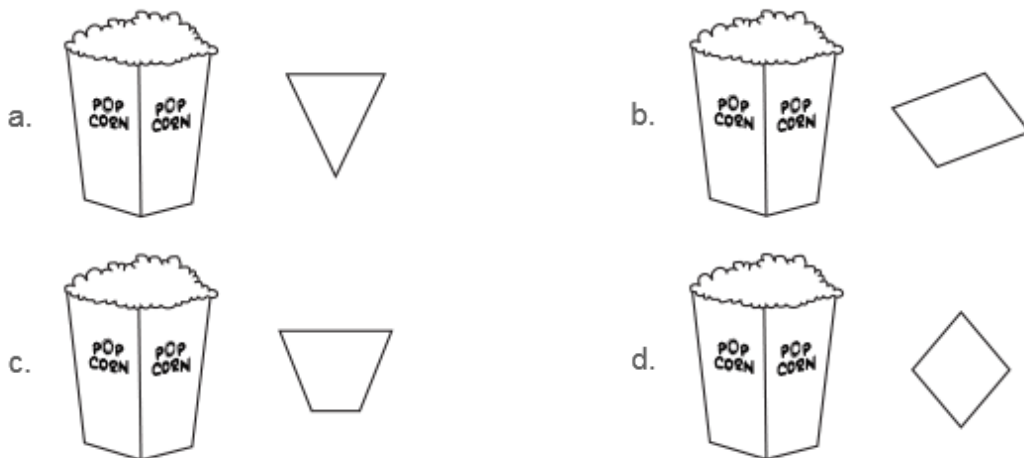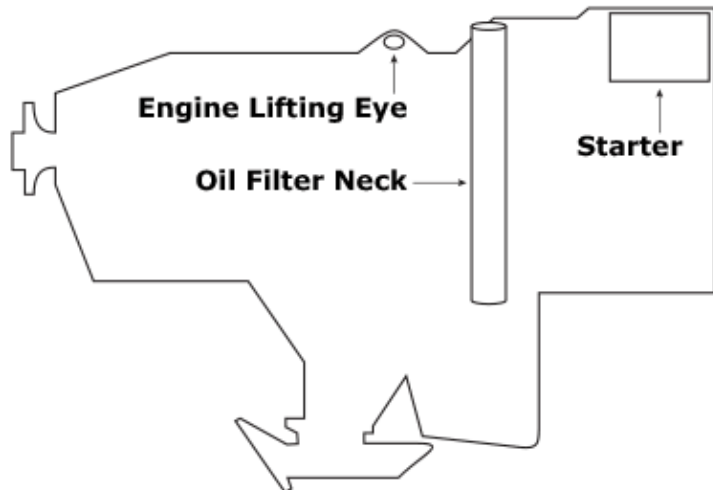
Question 5:

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.)

a.

b.

c.

d.

Question 6:

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

Engine Lifting Eye

Starter

Oil Filter Neck
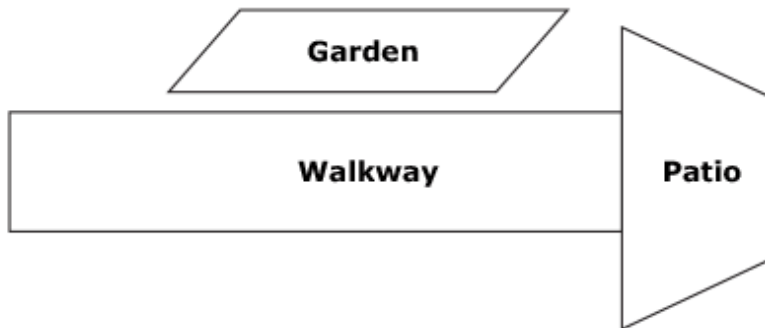
Which part on the diagram is a quadrilateral?

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?

a.

b.

c.

d.

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**
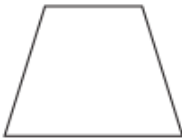   a. parallelograms b. quadrilaterals

[_____] **or** [_____] **in length.**
a. parallel b. perpendicular   a. equal b. unequal

Continue ➡

Question 11:

An artist has two drafts for a logo.

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:

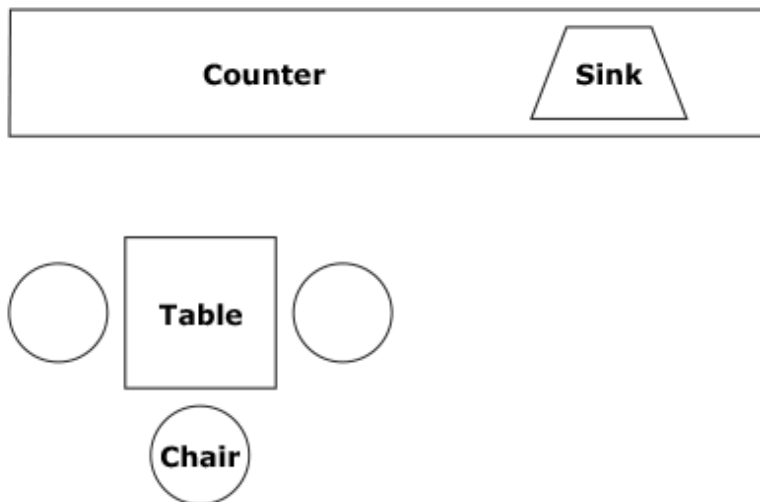An artist drew a polygon. She divided the polygon into two isosceles trapezoids.

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.

a.

b.

c.

d.

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?

a.

b.

c.

d.

Continue ➡

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?

                      [   ]

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
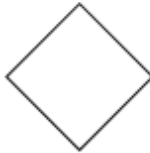
Which figures are rectangles?

a. Figure 2 only

b. Figures 1 and 2 only

c. Figures 1 and 3 only

d. Figures 1, 2, and 3

Stop ⊘