Names:

Use Circle Vocabulary

What You Need

- Recording Sheet

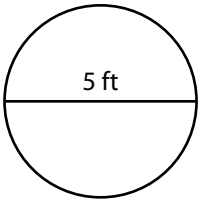
What You Do

KEEP IN MIND . . .
You may change your mind after you fill in some of the blanks. It's okay to erase.

1. Read the problem on the **Recording Sheet**. Think about how to solve it.
2. Read the paragraphs that tell how to solve the problem.
3. Use the words and numbers from the word bank and the number bank to fill in the blanks. You can use each word or number only once. You will not use all the words or numbers.
4. Take turns. After you fill in a blank, the next group member fills in the next one.
5. When all the blanks are filled, read the paragraphs aloud. Do they make sense?
6. Fix any mistakes if you need to.

Check Understanding

The diagram shows a plan for a circular sandbox. Use circle vocabulary to describe the size of the sandbox in three different ways.



Go Further

Use as many words as you can from the word bank to describe what the radius, diameter, circumference, and area of a pizza tell you about that pizza.

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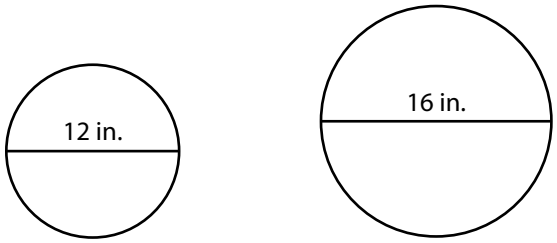
Names:

Use Circle Vocabulary

RECORDING SHEET

➤ **Joe's Café sells two different-sized pizzas, as shown. How much bigger is the large pizza?**



The shape of each pizza is a(n) _____. There are different ways to measure the size of a circle. You can find its _____, or the distance across a circle through its center. You can find its _____, or the distance around the circle. You can also find its _____, or the amount of space inside the circle.

Mary decides to calculate the area of each pizza to compare their sizes. She uses the formula _____. In this formula, the symbol π represents a constant called _____. It is the ratio of the circumference to the diameter of any circle and has an approximate value of _____. The variable r represents the _____, which is the distance from the _____ of a circle to any point on the circle. The value of r for the small pizza is _____ inches, and for the large pizza it is _____ inches.

The approximate area of the small pizza is _____ in.^{2}. For the large pizza it is _____ in.^{2}. This means that the large pizza is approximately _____ in.^{2} bigger than the small pizza.

Word Bank

area
center
circle
circumference
diameter
pi
radius
volume
$A = \pi r^2$
$C = \pi d$

Number Bank

3.14
6
8
12
16
37.68
50.24
87.92
113.04
200.96

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Name:

Match Prisms with Surface Area

What You Need

- Surface Area Formula Cards
- Surface Area Cards
- Prism Cards

What You Do

KEEP IN MIND . . .
There are 6 rectangular faces in a rectangular prism. Opposite sides are the same size and shape.

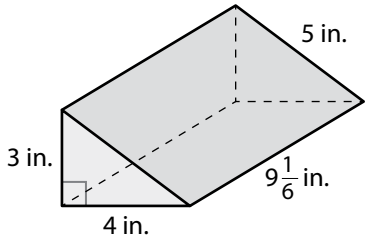
There are 2 triangular faces and 3 rectangular faces in a triangular prism. The triangular faces are the same size and shape.

1. Shuffle the **Surface Area Formula Cards** and place them faceup in rows on one side of the table.
2. Shuffle the **Surface Area Cards** and place them faceup in rows on the other side of the table.
3. Shuffle the **Prism Cards** and place them facedown in a pile in the middle of the table.
4. Work in two teams. Each team will select a **Prism Card**. Then work with your team to find a **Surface Area Formula Card** showing an expression that could be used to find the surface area of the figure, and a **Surface Area Card** showing the surface area of the figure. Teams check each other's work.
5. Continue until all the cards have been matched.

Check Understanding

Does the equation below match the prism? Explain.

$$2\left[\frac{1}{2}(3 \cdot 4)\right] + \left(4 \cdot \frac{55}{6}\right) + \left(5 \cdot \frac{55}{6}\right) = 94\frac{1}{2} \text{ in.}^2$$



Go Further

Choose one of the **Prism Cards**. Draw and label another prism of the same type with at least one different dimension but the same surface area.

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Name:

SURFACE AREA FORMULA CARDS

$2(6 \cdot 8) + 2\left(8 \cdot \frac{3}{2}\right) + 2\left(6 \cdot \frac{3}{2}\right)$

$2(1 \cdot 6) + 2(6 \cdot 8) + 2(1 \cdot 8)$

$2\left[\frac{1}{2}(4 \cdot 3)\right] + \left(3 \cdot \frac{28}{3}\right) + \left(4 \cdot \frac{28}{3}\right) + \left(5 \cdot \frac{28}{3}\right)$

$2(3 \cdot 5.5) + 2(3 \cdot 4) + 2(4 \cdot 5.5)$

$2\left[\frac{1}{2}(3 \cdot 4)\right] + (4 \cdot 4.5) + (3 \cdot 4.5) + (5 \cdot 4.5)$

$2\left[\frac{1}{2}(3 \cdot 4)\right] + (5 \cdot 7.5) + (3 \cdot 7.5) + (4 \cdot 7.5)$

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66 in.^2	101 in.^2
102 in.^2	124 in.^2
124 in.^2	138 in.^2

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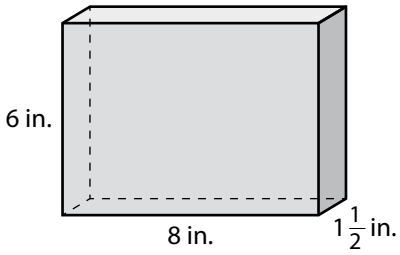
A



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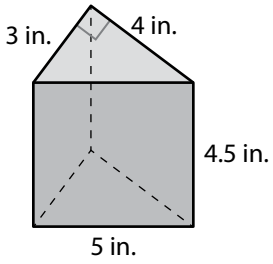

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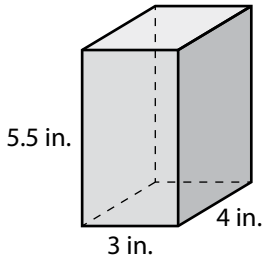

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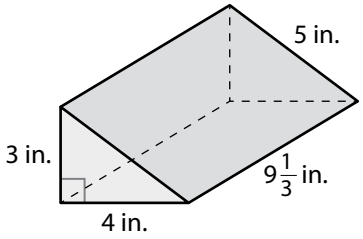

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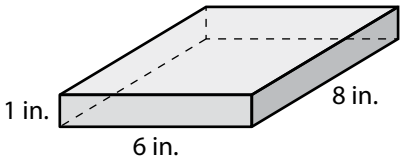

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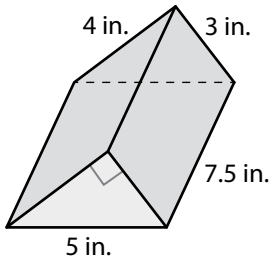

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