Eureka Math

3rd Grade
Module 7
Lesson 13

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Directions for customizing presentations are available on the next slide.

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Reflecting your Teaching Style and Learning Needs of Your Students

- ➢ When the Google Slides presentation is opened, it will look like Screen A.
- ➢ Click on the “pop-out” button in the upper right hand corner to change the view.
- ➢ The view now looks like Screen B.
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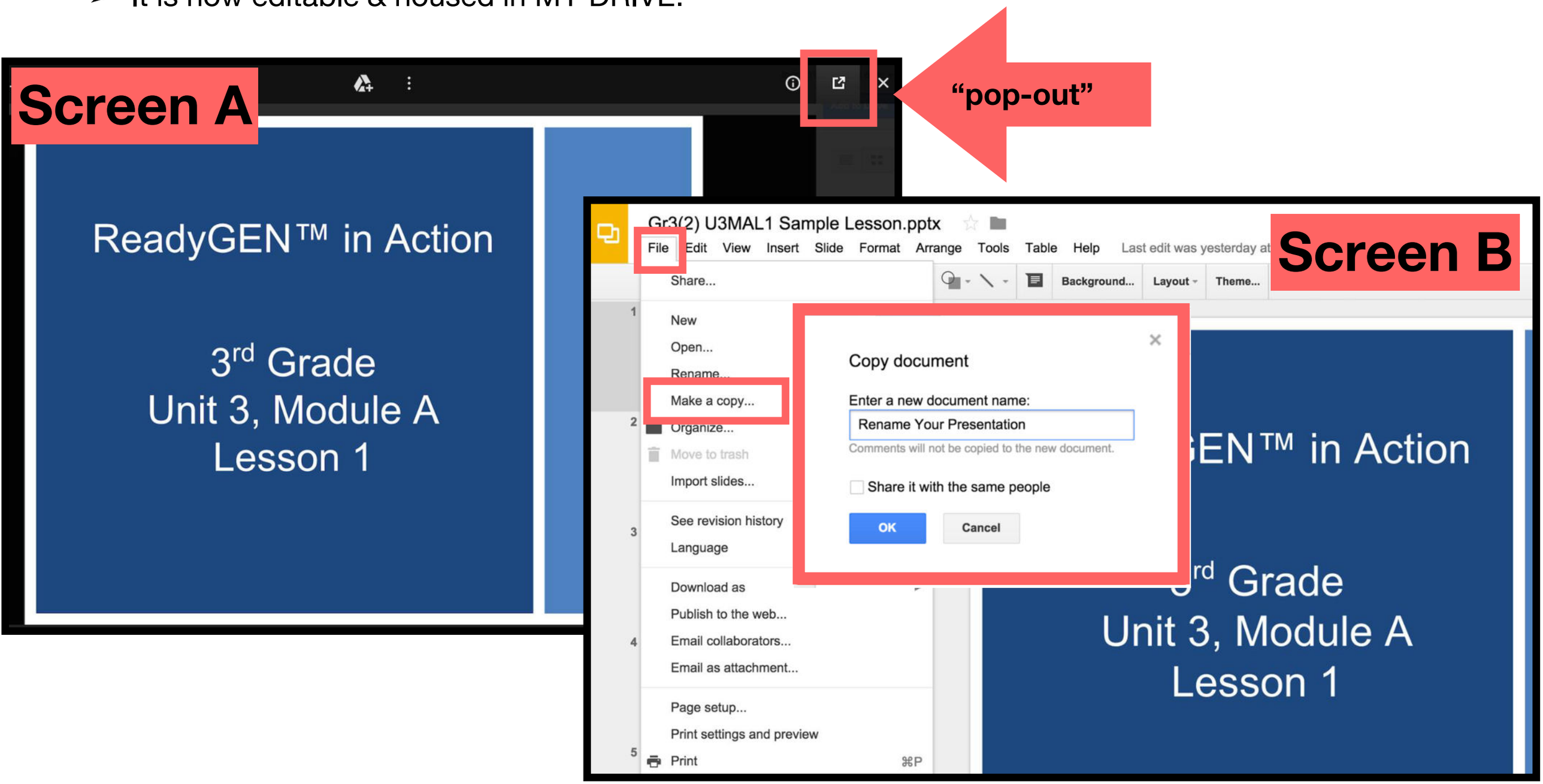
- ➢ Choose MAKE A COPY and rename your presentation.
- ➢ Google Slides will open your renamed presentation.
- ➢ It is now editable & housed in MY DRIVE.



Icons

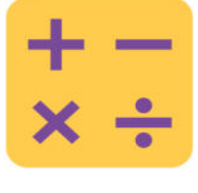
Read, Draw, Write

Learning Target

Personal White Board

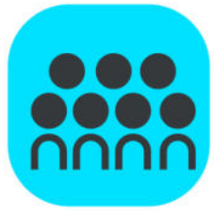
Problem Set

Manipulatives Needed



Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

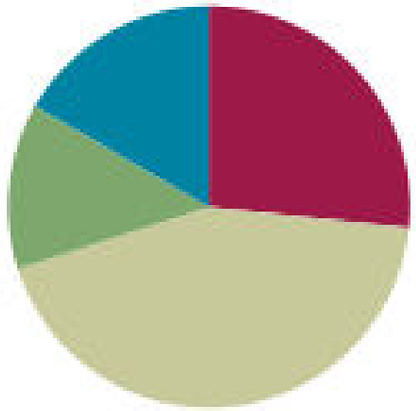
Small Group Time

Lesson 13

Objective: Explore perimeter as an attribute of plane figures and solve problems.

Suggested Lesson Structure

Fluency Practice	(16 minutes)
Application Problem	(8 minutes)
Concept Development	(26 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can explore perimeter as an attribute of plane figures and solve problems.

Fluency Practice

Name the Shape (3 min.)

Fluency Practice (16 minutes)

- Multiply by 8 **3.OA.7** (8 minutes)
- Equivalent Counting with Units of 4 **3.OA.7** (4 minutes)
- Find the Perimeter **3.MD.8** (4 minutes)

Fluency Practice

Pattern Sheet

Multiply.

8 x 1 = _____	8 x 2 = _____	8 x 3 = _____	8 x 4 = _____
8 x 5 = _____	8 x 1 = _____	8 x 2 = _____	8 x 1 = _____
8 x 3 = _____	8 x 1 = _____	8 x 4 = _____	8 x 1 = _____
8 x 5 = _____	8 x 1 = _____	8 x 2 = _____	8 x 3 = _____
8 x 2 = _____	8 x 4 = _____	8 x 2 = _____	8 x 5 = _____
8 x 2 = _____	8 x 1 = _____	8 x 2 = _____	8 x 3 = _____
8 x 1 = _____	8 x 3 = _____	8 x 2 = _____	8 x 3 = _____
8 x 4 = _____	8 x 3 = _____	8 x 5 = _____	8 x 3 = _____
8 x 4 = _____	8 x 1 = _____	8 x 4 = _____	8 x 2 = _____
8 x 4 = _____	8 x 3 = _____	8 x 4 = _____	8 x 5 = _____
8 x 4 = _____	8 x 5 = _____	8 x 1 = _____	8 x 5 = _____
8 x 2 = _____	8 x 5 = _____	8 x 3 = _____	8 x 5 = _____
8 x 4 = _____	8 x 2 = _____	8 x 4 = _____	8 x 3 = _____
8 x 5 = _____	8 x 3 = _____	8 x 2 = _____	8 x 4 = _____

Fluency Practice

Count by 4 (4 min.)

4	8	12	16	20	24	28	32	36	40
1 four	2 fours	3 fours	4 fours	5 fours	6 fours	7 fours	8 fours	9 fours	10 fours

Fluency Practice

Find the Perimeter (4 minutes)

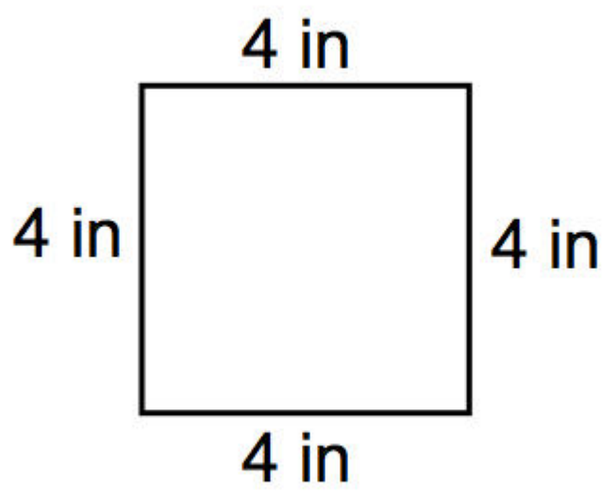
How many sides does this shape have?

What's the length for each side?

How many 4s are there?

What is the repeated addition number fact?

What is the perimeter of this shape?

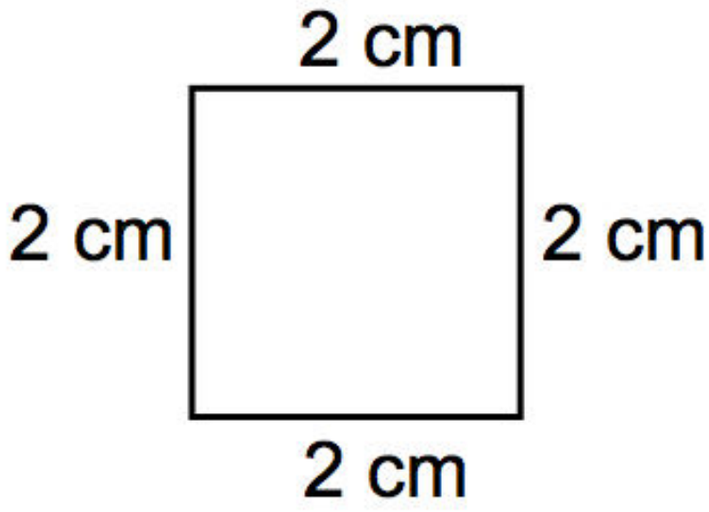


Fluency Practice

Find the Perimeter (4 minutes)

- Materials needed 3x5 index card,

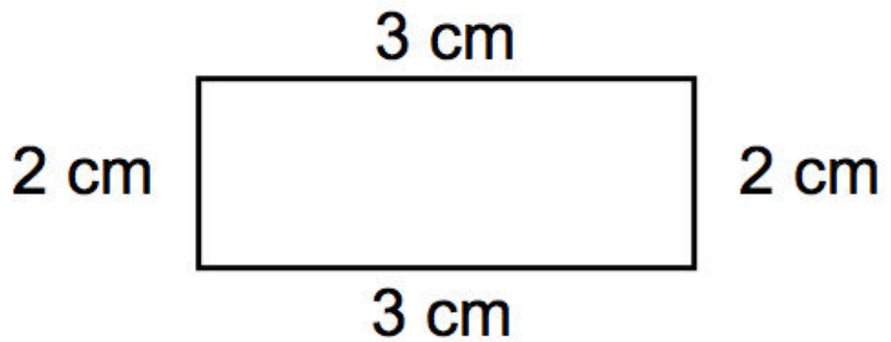
What is the perimeter of this shape?



Fluency Practice

Find the Perimeter (4 minutes)

What is the perimeter of this shape?

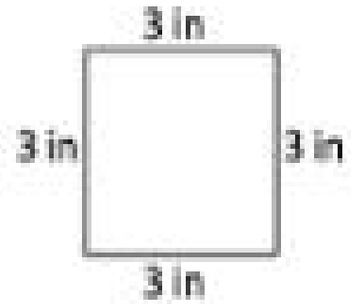


What is the addition equation for this shape?

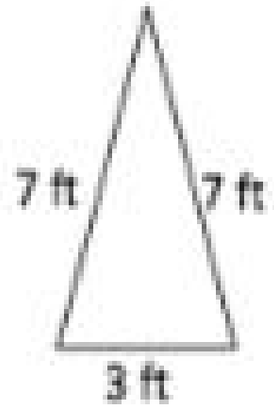
Fluency Practice

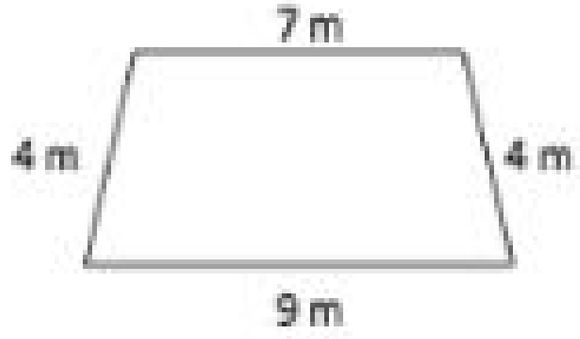
Find the Perimeter (4 minutes)

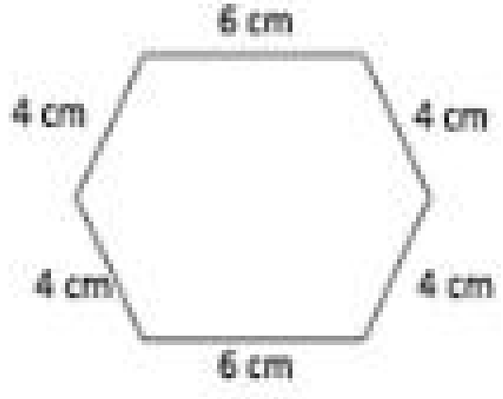
What are the perimeters of these shapes?

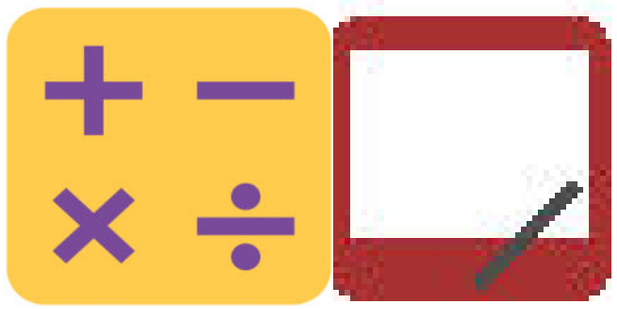


Write the addition equations for each shape.









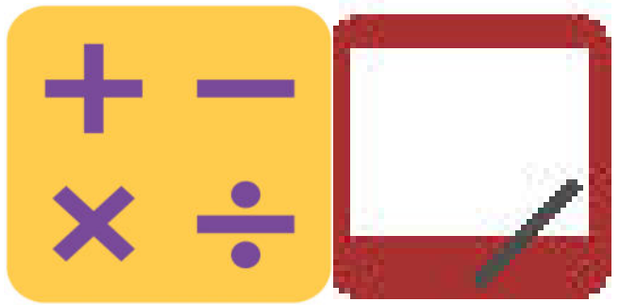
Application Problem

Application Problem (8 minutes)

- Materials needed: 3” x 5” index card and ruler

What is the perimeter of your index card in inches?

Application Problem (8 minutes)



Application Problem

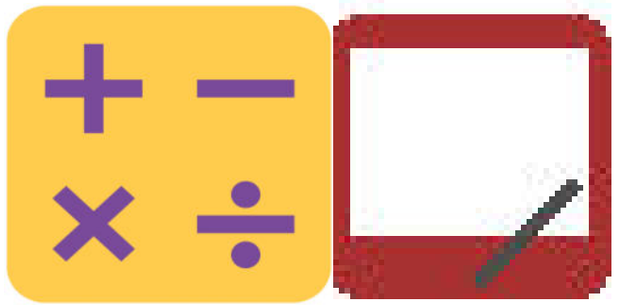
- Materials needed: 3” x 5” index card and ruler

Make a new shape.

Place the short end of your index card next to the short end of your partner’s index card.

Make a prediction:

What do you think the perimeter is of the new shape you made?



Application Problem

Application Problem (8 minutes)

Find the perimeter of the shape.

Was your prediction right?

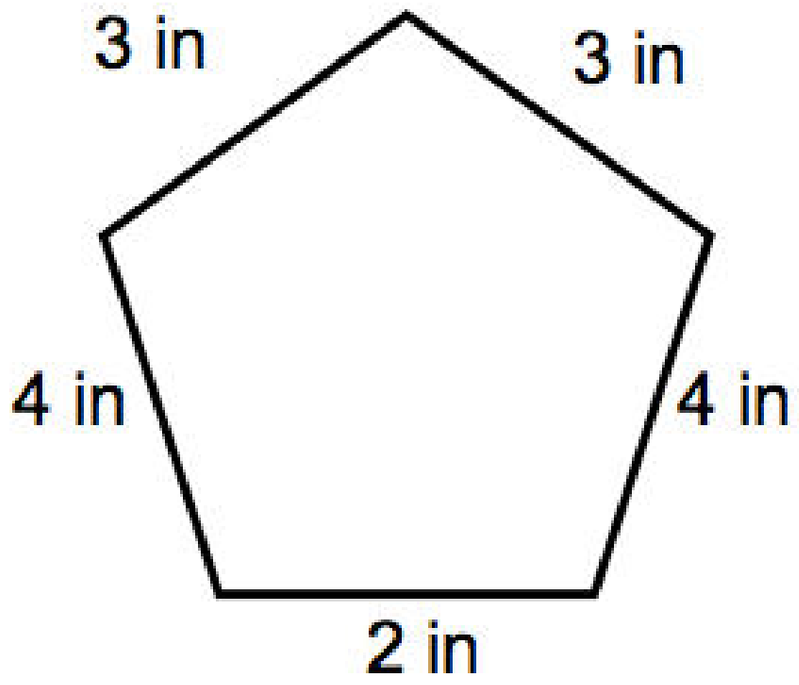
Explain.

Concept Development

Part 1

Calculate perimeter with given side lengths

Use information from the picture to find the perimeter of the shape.

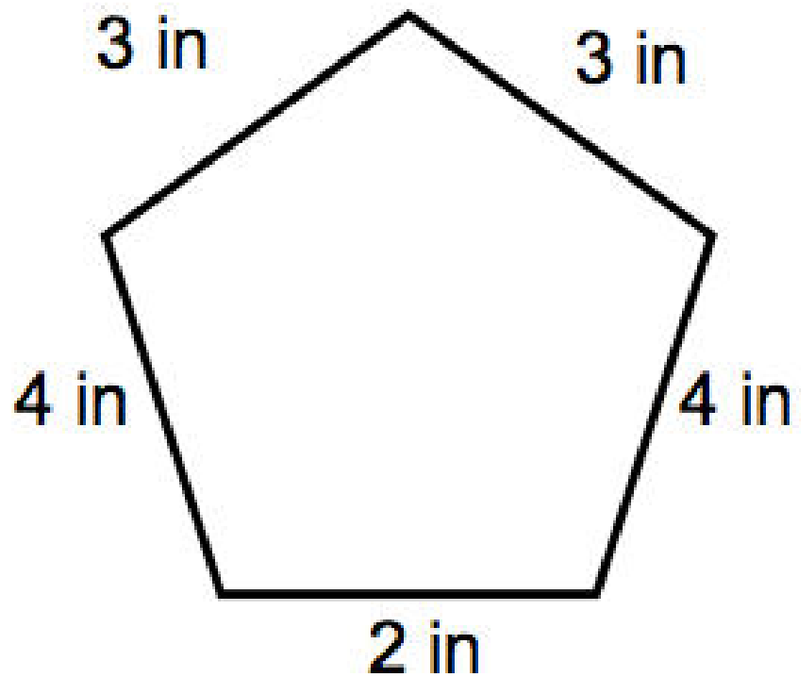


Concept Development

Part 1

Calculate perimeter with given side lengths

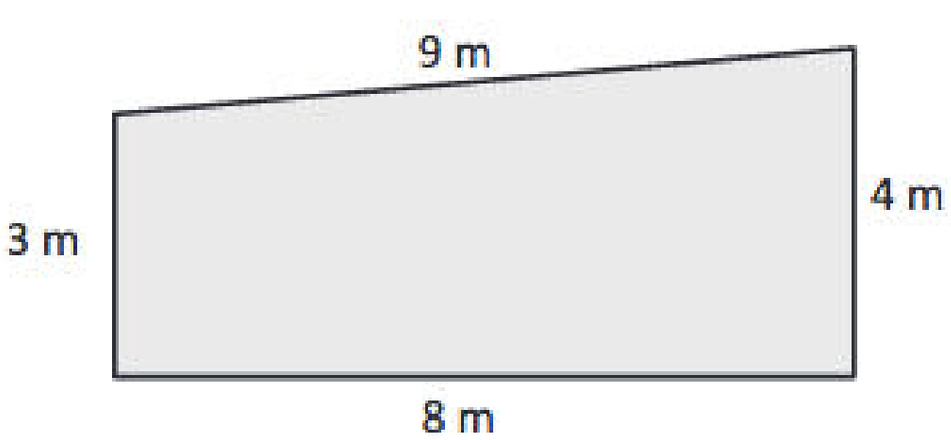
How did you the use information from the picture to find the perimeter of the shape?

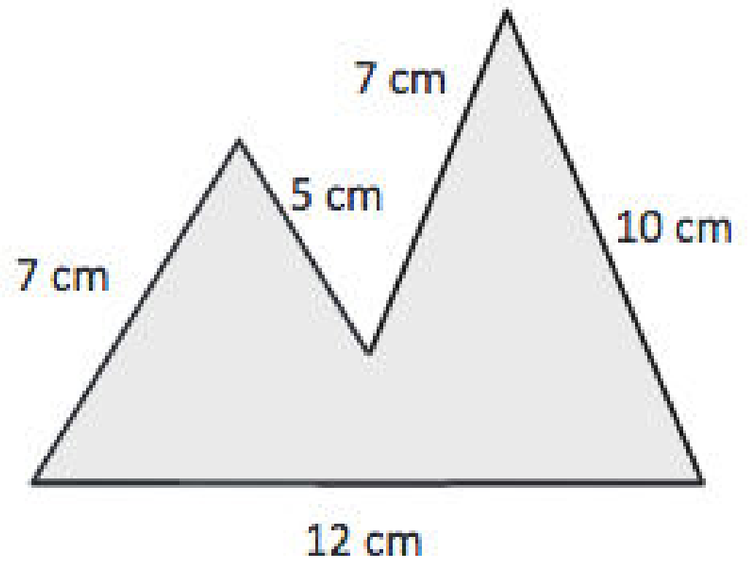


Concept Development

Part 1

Calculate perimeter with given side lengths



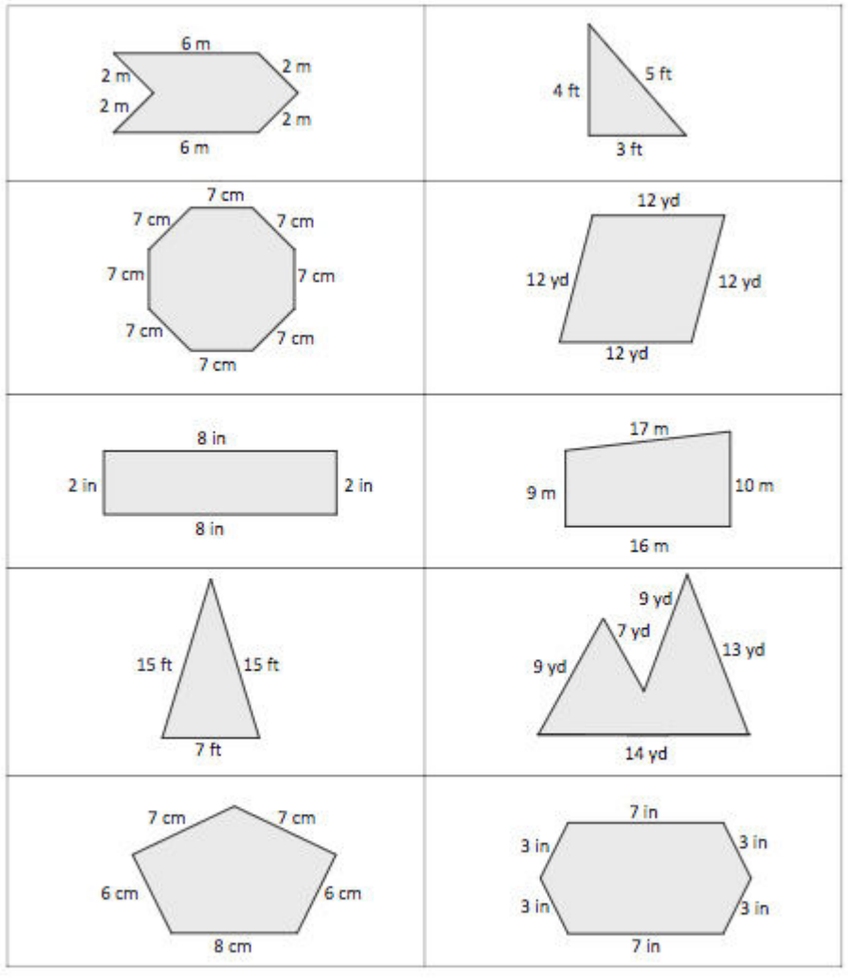


Concept Development

Part 2

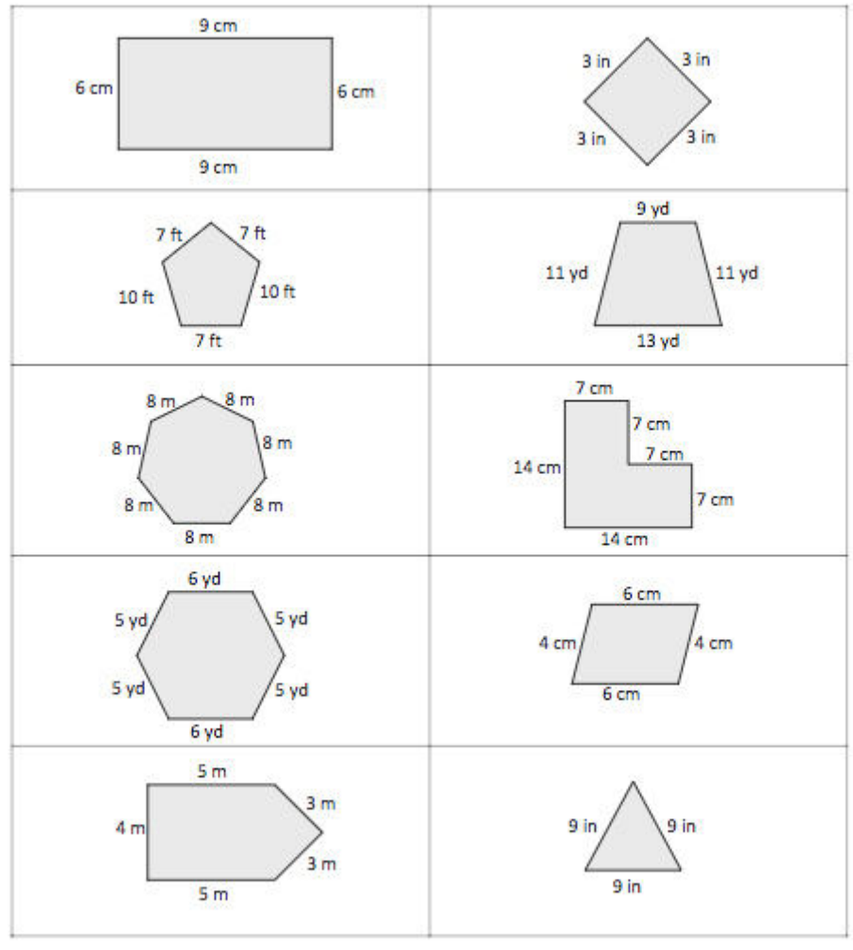
Practice calculating the perimeter of various shapes with given side lengths.

Materials: (T) Timer (S) Quiz -Quiz-Trade cards, personal white board

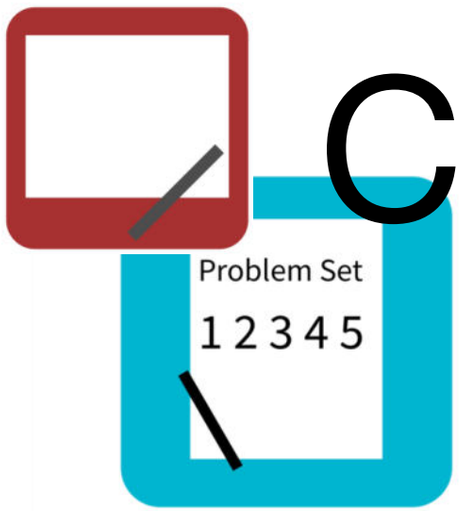


quiz-quiz-trade cards

Note: Each Template page must be copied separately for students to cut out the cards.



quiz-quiz-trade cards

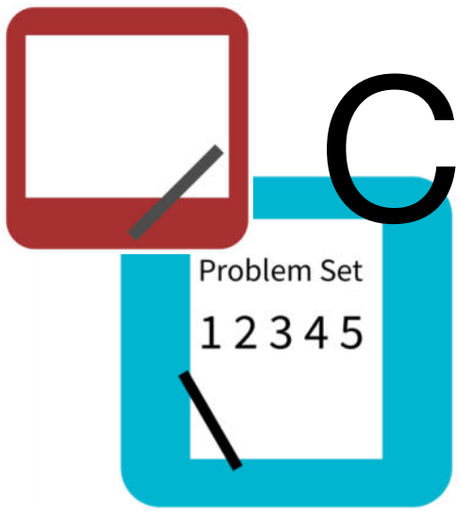


Concept Development

Calculate the perimeter of the shapes on your card while your partner calculates the perimeter on the shapes on their card.

Compare your answers.

If your answers do not match, try again.



Concept Development

When both partners agree on the perimeter on your trade card…. Find a new partner and do the next shape.

Calculate the perimeter of the shapes on your card while your partner calculates the perimeter on the shapes on their card.

Compare your answers.

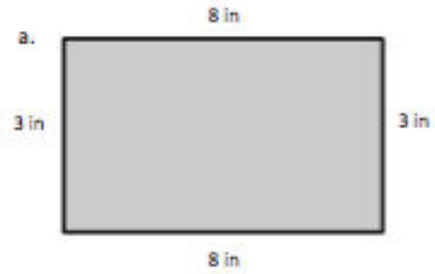
If your answers do not match, try again.

Problem Set

Name _____ Date _____

1. Find the perimeter of the following shapes.

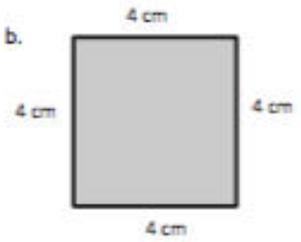
a.



P = 3 in + 8 in + 3 in + 8 in

= _____ in

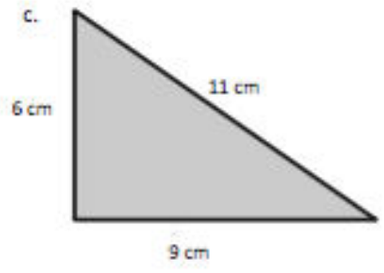
b.



P = ____ cm + ____ cm + ____ cm + ____ cm

= _____ cm

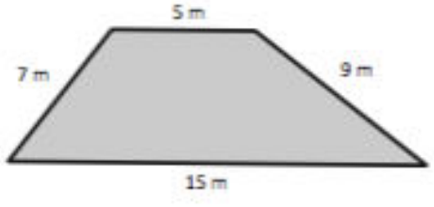
c.



P = ____ cm + ____ cm + ____ cm

= _____ cm

d.



P = ____ m + ____ m + ____ m + ____ m

= _____ m

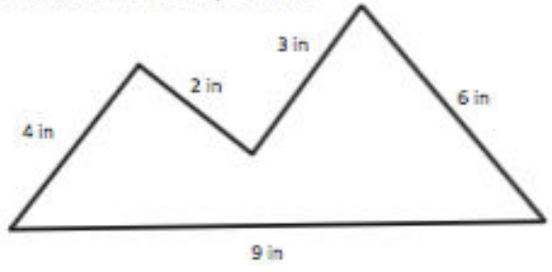
e.

P = ____ in + ____ in + ____ in + ____ in + ____ in

= _____ in

2. Alan's rectangular swimming pool is 10 meters long and 16 meters wide. What is the perimeter?

3. Lila measures each side of the shape below.



a. What is the perimeter of the shape?

b. Lila says the shape is a pentagon. Is she correct? Explain why or why not.

Debrief

Lesson Objective:

I can explore perimeter as an attribute of plane figures and solve problems.

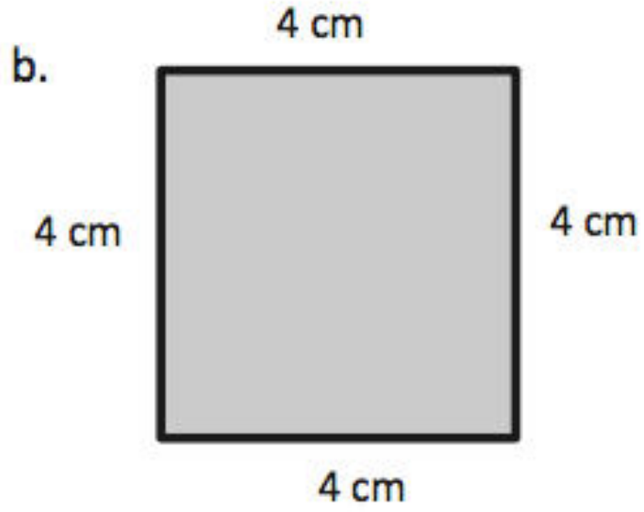
Debrief

What information helped you find the perimeter for each shape?

Debrief

What multiplication sentence can you use to find the perimeter of the shape in Problem 1(b)?

b.

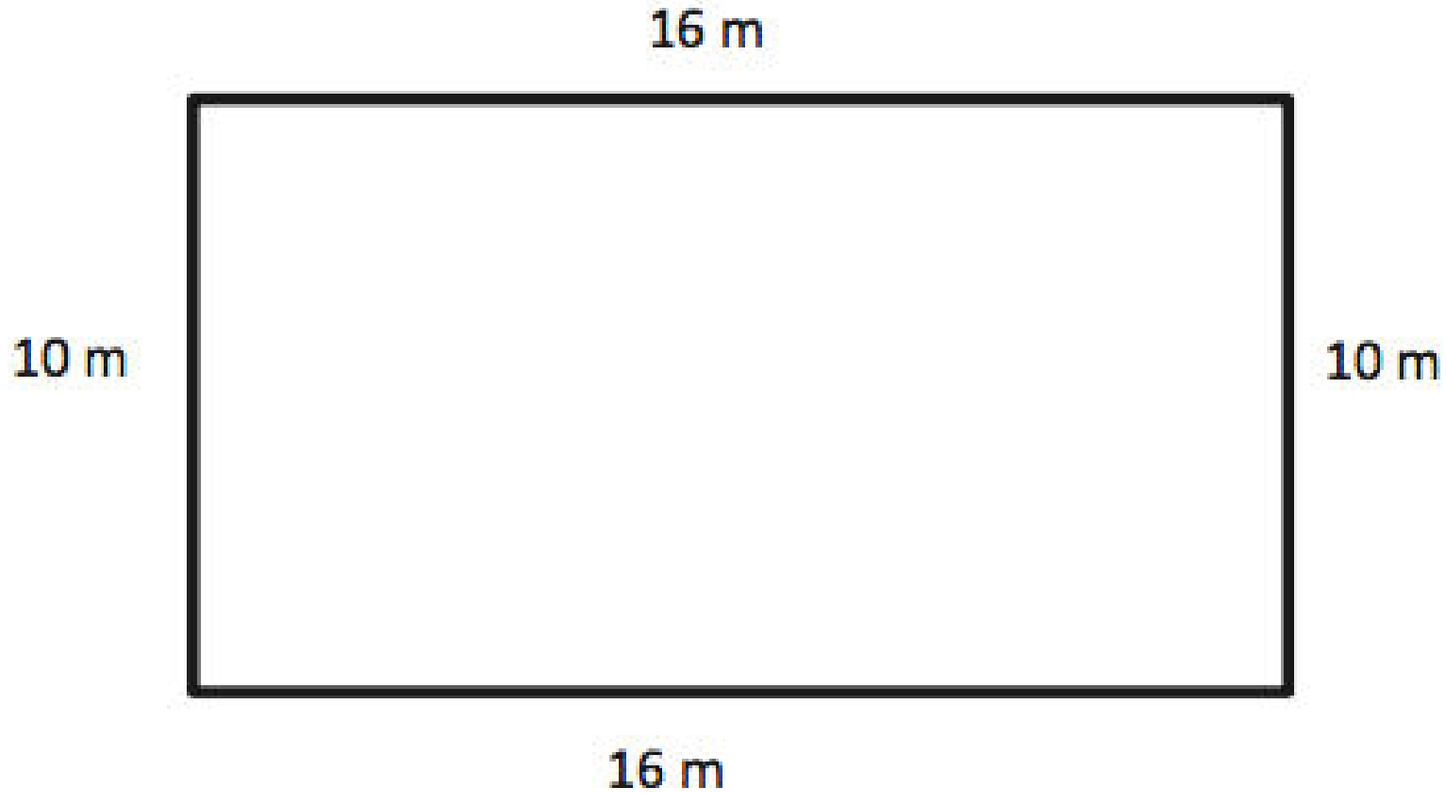


P = _____ cm + _____ cm + _____ cm + _____ cm

= _____ cm

Debrief

Can you think of the perimeter in Problem 2 as 4 tens plus 2 sixes? Why or why not?



Exit Ticket (3 minutes)

Name _____ Date _____

Which shape below has the greater perimeter? Explain your answer.