WARM-UP

Please take out any notes you have and get ready for our Unit 3 Test Review!

Mrs. Oakes

Unit 3 Test Review

- Students will participate in a Unit 3 Test Review

- How are spatial relationships, including shape and dimension, used to draw, construct, model and represent real situations or solve problems?
- How can the application of the attributes of geometric shapes support mathematical reasoning and problem solving?
- How can geometric properties and theorems be used to describe, model and analyze situations?

STUDY ISLAND ALERT

1st QUARTER Math Pathways DUE NOW:

- Number Lines
- Arithmetic with Whole Numbers
- Arithmetic with Decimals
- Number Theory
- Number Sentences
- Write Expressions
- Symbolize Problem Situations
- Units of Measurement
- Absolute Value
- Solve Equations & Inequalities

10 questions!

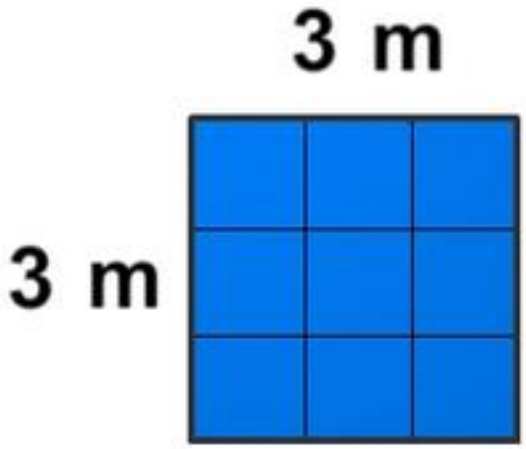
You need to complete
10 questions!

Unit 3 Lesson 1

Foundations

Finding Area

AREA – the number of square units that are needed to cover a surface



Area is measured in square units!

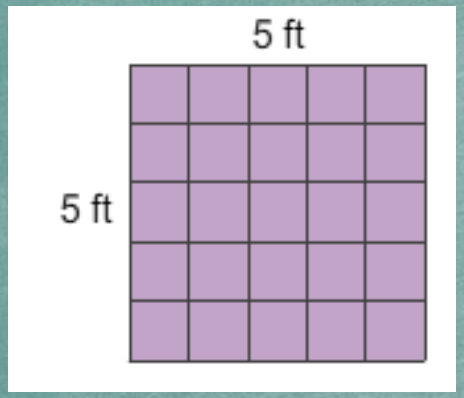
1) Count the squares

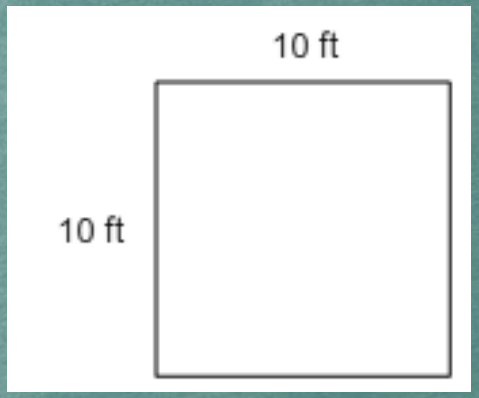
9 squares total = 9 meters^2

2) Multiply L x W

3m x 3m = 9 meters^2

Finding Area: Volunteers Please





Area is measured in square units!

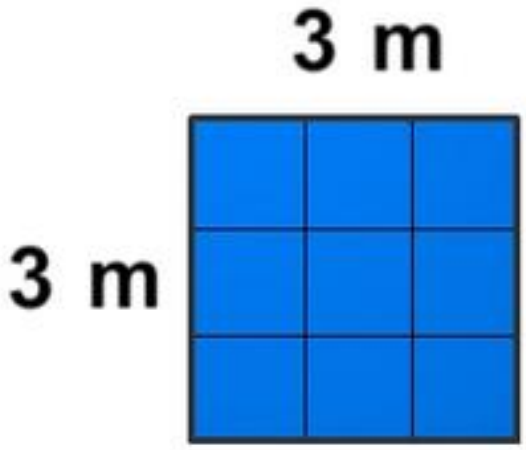
Multiply L x W

Example: 3m x 3m = 9 meters^2

Finding Area

AREA – the number of square units that are needed to cover a surface

Area = l x w



Area = l x w

Area = 3^2

Area = _ x _

Area = ___ m^2

Finding Area: Volunteers Please

A mirror in a bird cage is square. Each side is 7cm long. Find the area!

$A = l \times w$

_____ cm^2

A poster in my room is square. Each side is 2 ft long. Find the area!

$A = l \times w$

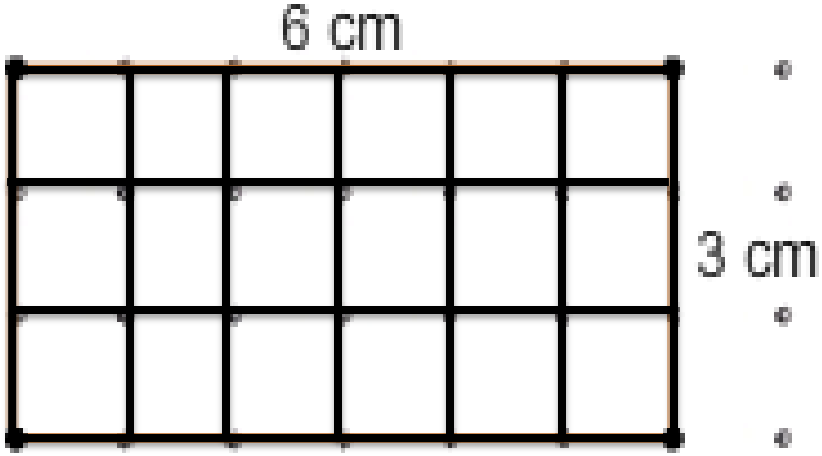
_____ ft^2

Unit 3 Lesson 2

Area of Rectangles

Finding Area of a Rectangle

AREA – the number of square units that are needed to cover a surface



Area is measured in square units!

1) **Count the squares**

18 squares total = 18 cm^2

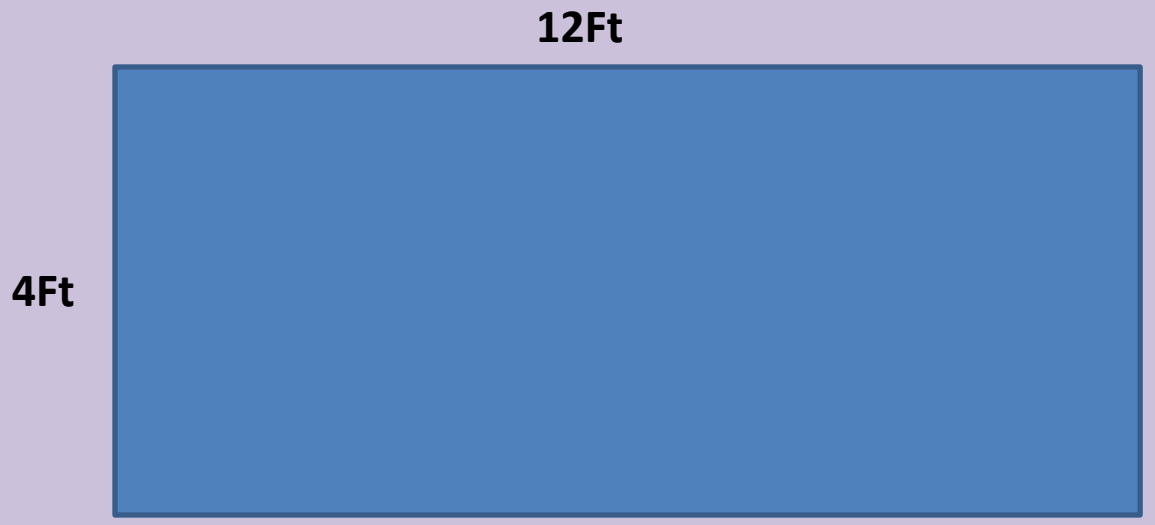
2) **Multiply L x W**

6cm x 3m = 18 cm^2

QUICK CHECK

Using the Area formula

$A = L \times W$



A) 15 ft^2
B) 48 ft^2
C) 32 ft^2
D) Need More Time

Finding Area and Converting

AREA – the number of square units that are needed to cover a surface

Area = L x W

3 Ft

7 Ft

Area = L x W

A = _____ Ft^2

Convert to Inches

_____ Inches (3Ft = ___ Inches)

Area = L x W

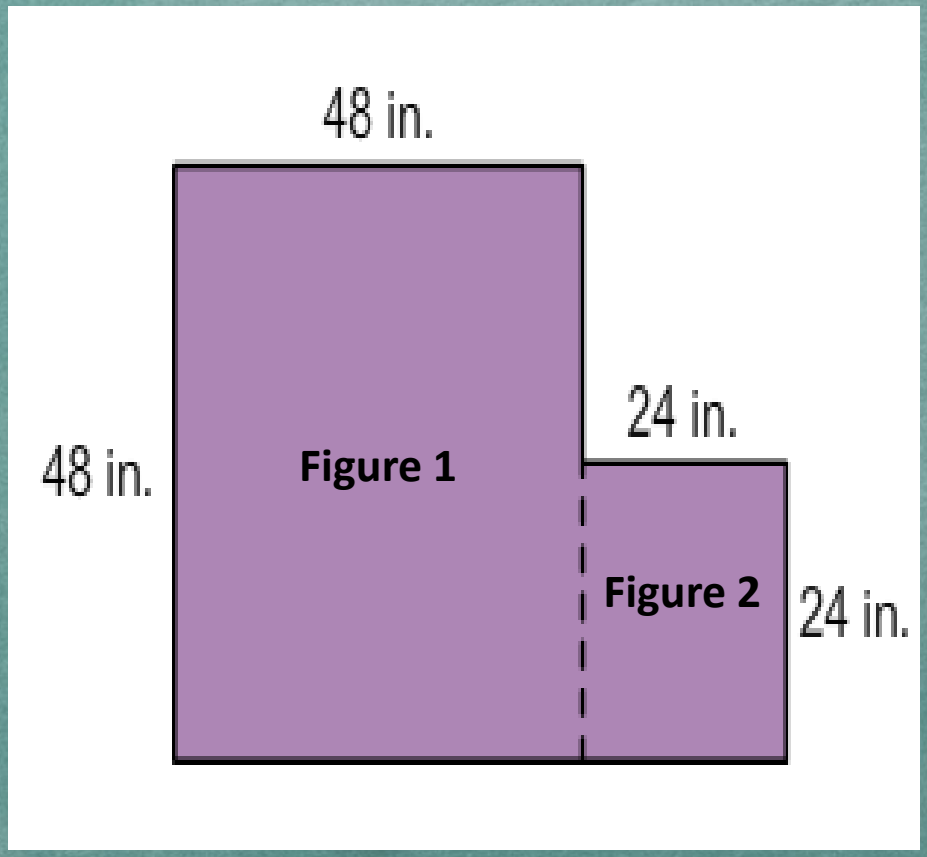
A = _____ $Inches^2$

_____ Inches

(7Ft =___Inches)

Finding Area: Pieces and Wholes

Area = L x W



1) Find the are of Figure 1

48 in x 48 in = _____

2) Find the area of Figure 2

24 in x 24 in = _____

3) Add both together!

2,304 in^2 + 576 in^2 = _____

Unit 3 Lesson 3

Special Quadrilaterals

Area of Rectangles & Parallelogram

Area = base x height VERY SIMILAR TO Area = length x width

$b = 8$
$h = 4$

$$A = bh$$
$$= 8 \cdot 4$$
$$= 32$$

The area is 32 cm².

A right angle is formed when the base and height meet!

Area of Rectangles & Parallelogram: Volunteers

Area = base x height VERY SIMILAR TO Area = length x width

8 Ft

_____

10 Ft

_____

5 Ft

_____

16 Ft

_____

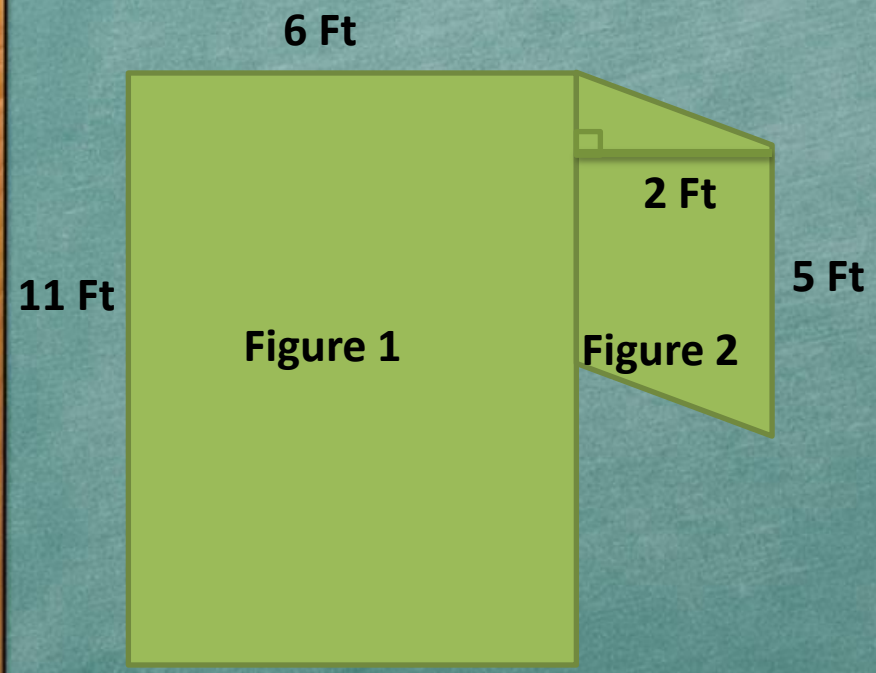
QUICK CHECK

Using the Area formula

A = base x height

A) 15 ft^2
B) 48 ft^2
C) 32 ft^2
D) Need More Time

QUICK CHECK



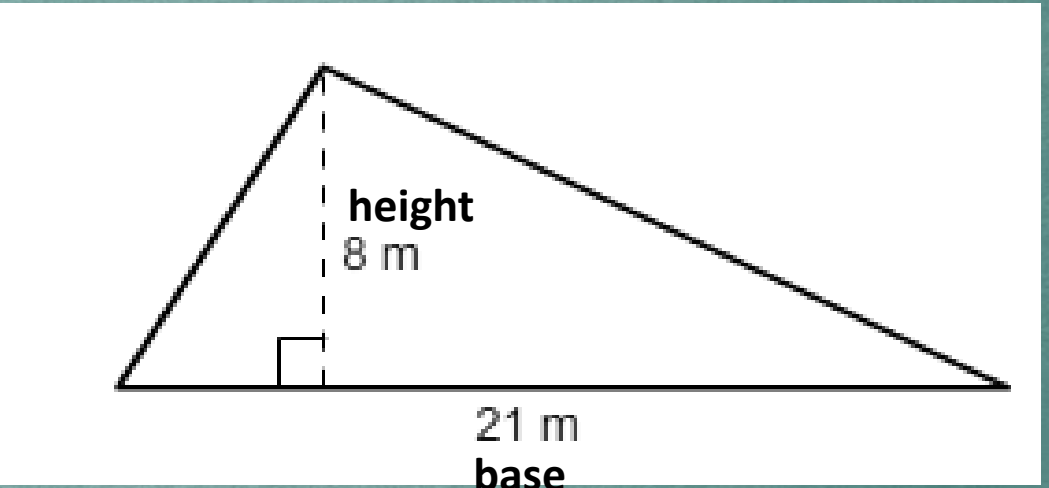
Find the area of each figure and then find the area of the whole figure!

A) 76 Ft^2
B) 30 Ft^2
C) 91 Ft^2
D) Need more time

Unit 3 Lesson 6

Area of a Triangle

Finding Area of a Triangle

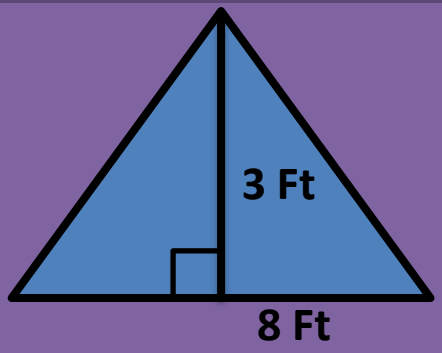


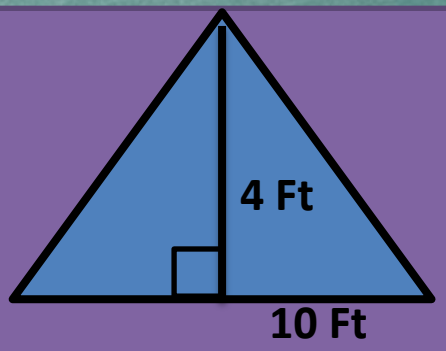
Area of a Triangle

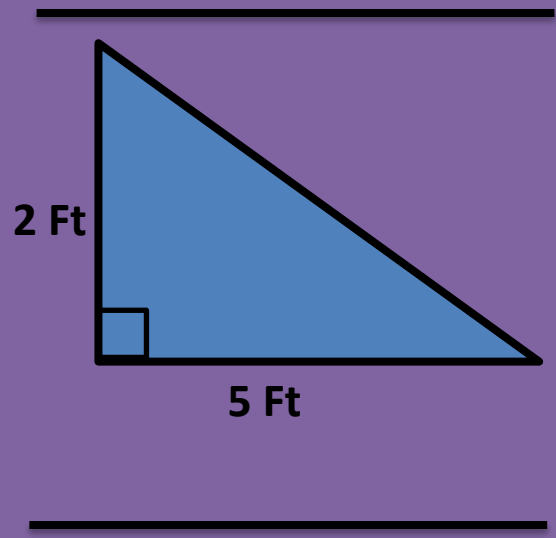
$$A = \frac{bh}{2}$$

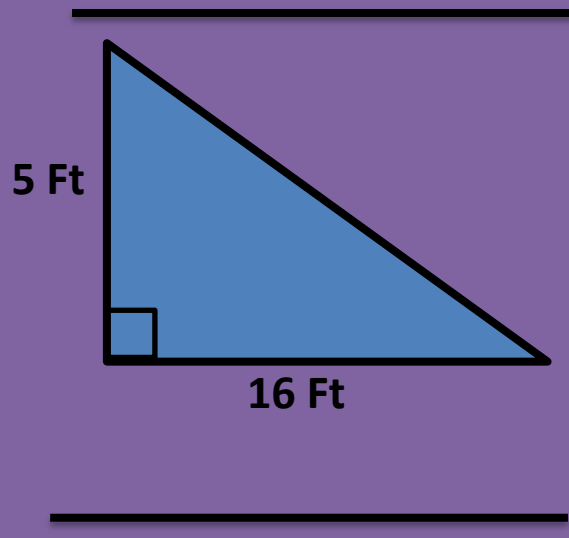
Area of Triangles: Volunteers

$$A = \frac{bh}{2}$$





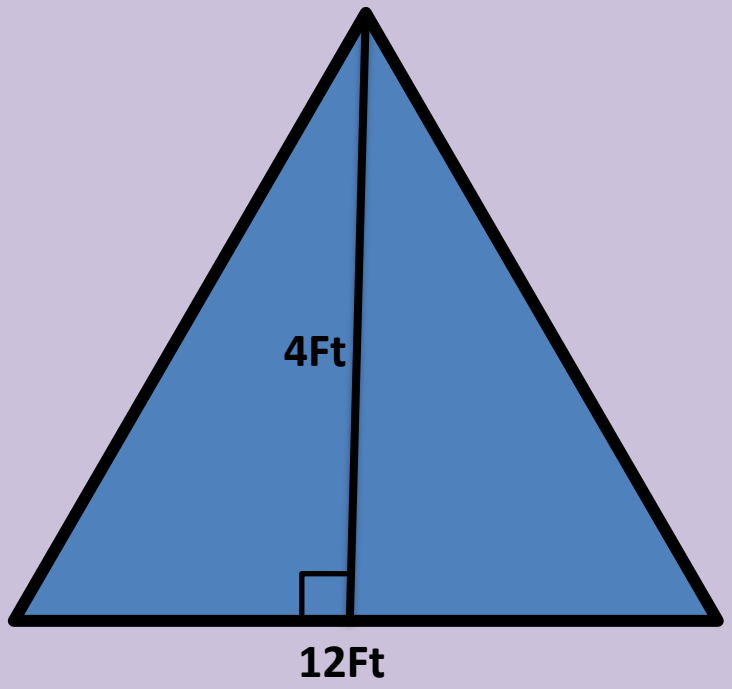




QUICK CHECK

Using the Area formula

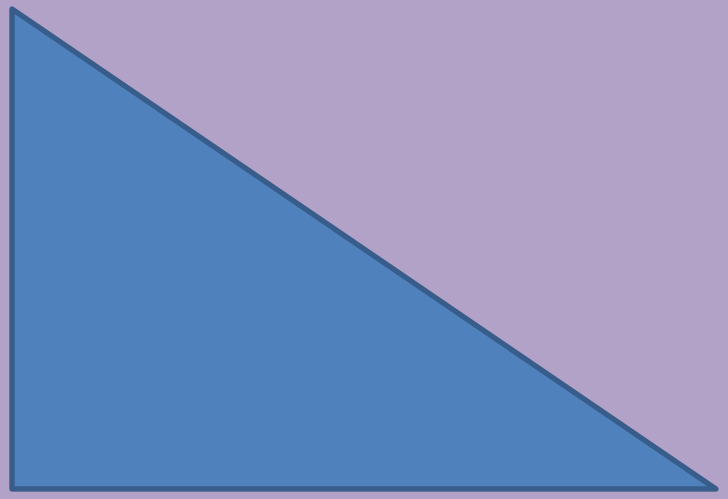
$$A = \frac{bh}{2}$$



A) 16 ft^2
B) 48 ft^2
C) 24 ft^2
D) Need More Time

QUICK CHECK

Find the area of a triangle with a base of 13cm and a height of 5.9cm!

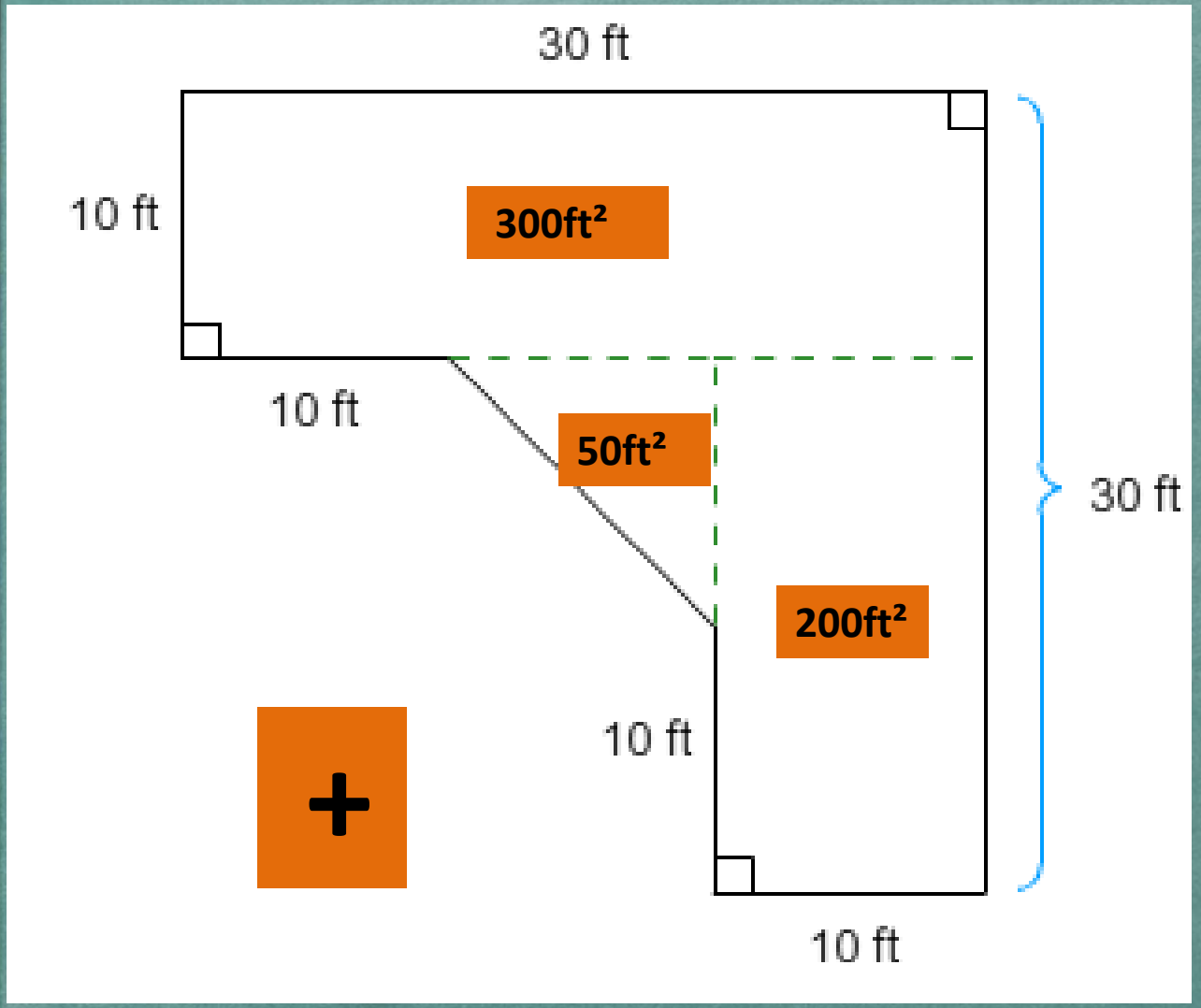


A) 38.35 cm^2
B) 30 cm^2
C) 91 cm^2
D) Need more time

Unit 3 Lesson 7

Triangles and Parallelograms

Breaking up Figures!



Area of Figure 1

30ft x 10ft = 300ft²

Area of Figure 2

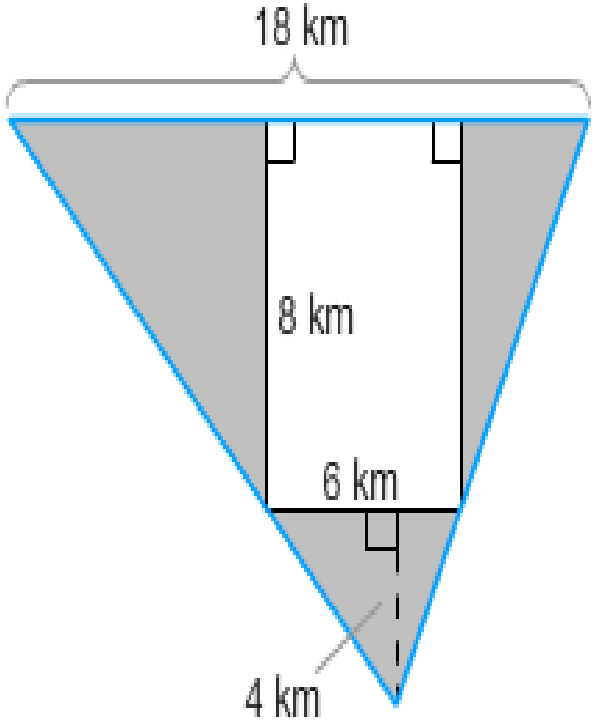
20ft x 10ft = 200ft²

Area of Figure 3

10ft x 10ft ÷ 2 = 50ft²

Add all together

To find the total area of the shaded region, you need to find the area of the large blue triangle and subtract the area of the rectangle. The area of the large blue triangle is 108 km^2, and the area of the rectangle is 48 km^2. Fill in the missing numbers.



$A =$ ☐ − ☐

$=$ ☐

Area of Triangle = 108km²

Area of Rectangle = 48km²

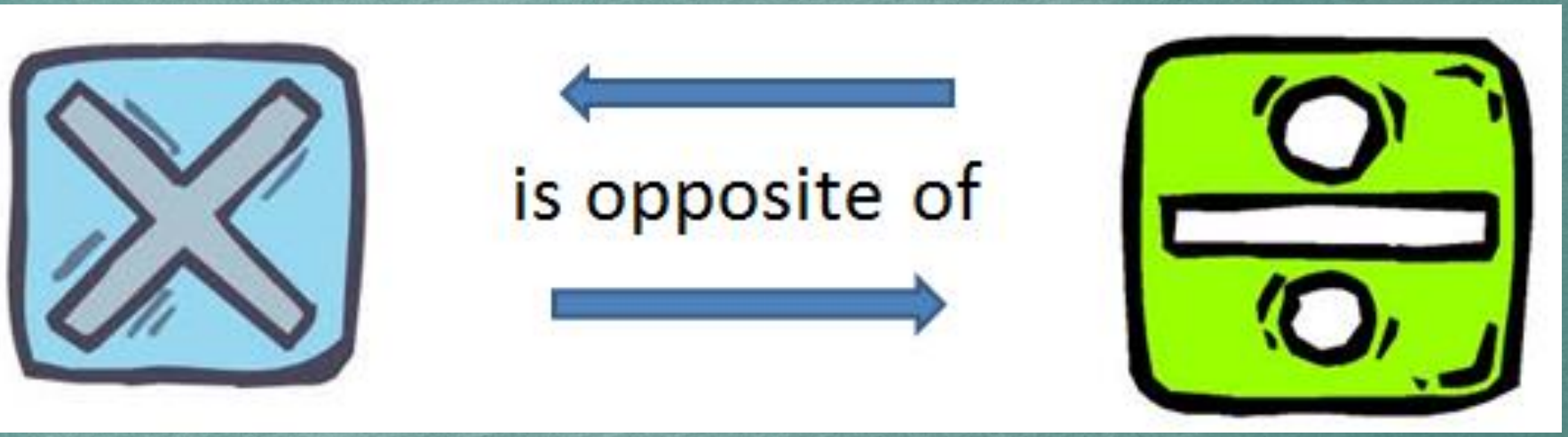
The area of the shaded region is ☐ km^2.

Check

Unit 3 Lesson 8

Unknown Side Length

Inverse Operation: Multiplication & Division



6x = 18

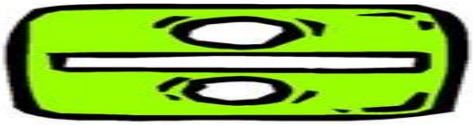
What is the opposite of multiplication?

x ÷ 3 = 5

What is the opposite of division?

Inverse Operation: Multiplication & Division

is opposite of



1. $3x = 21$

2. $4x = 32$

3. $5x = 35$

1. $30 \div x = 10$

2. $36 \div x = 9$

3. $55 \div x = 5$

QUICK CHECK

Inverse Operations

6x = 72

A) 15
B) 9
C) 12

Can We Find the Missing Side?

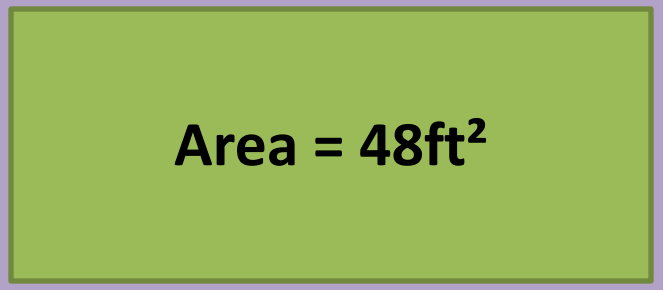
This rectangle represents a garden with an area of 70 ft². The length of the garden is 10 feet, what is the width?

w

10 ft

Can We Find the Missing Side?

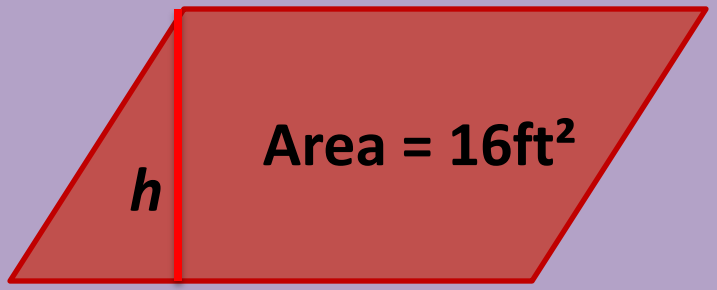
12 ft



w

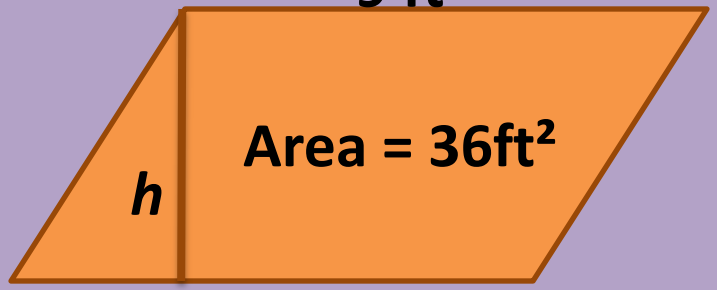
_____

8 ft



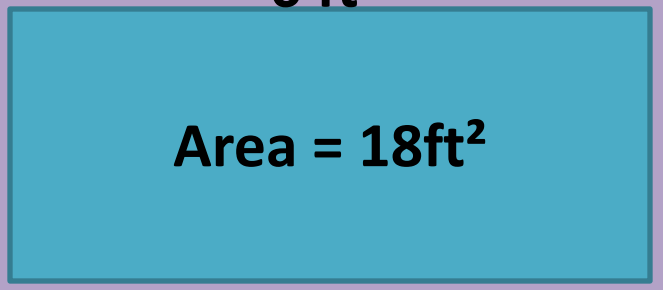
_____

9 ft



_____

6 ft



w

_____

Word Problems

A florist has 96 roses. How many bouquets can she make if she puts 12 roses in each bouquet?

WHO'S AWESOME?

YOU'RE AWESOME

Any
Questions

HOMEWORK

1) Study for your Unit 3 Test in Sapphire

2) Make sure you have a working log-in for Sapphire so you can take your test!

NEED HELP WITH THAT??