LESSON ONE

Area of Squares, Rectangles & Triangles

SUGGESTED TIME FRAME : THREE DAYS

Resources Included:

- Three Warm Ups
- Area of Squares and Rectangles Notes
- Area of Triangles Notes
- Area of Squares and Rectangles Practice – Can be used for homework or classwork
- Area of Triangles Practice – Can be used for homework or classwork
- Area of Triangles and Rectangles Error Analysis

Essential Skills :

- Find the area of triangles, squares and rectangles.

Name_____ Date _____ ONE

Area of Squares, Rectangles & Triangles

WARM UP

Skill : Identifying shapes

1. Describe the characteristics of a square.	2. What are the similarities and differences between squares and rectangles?
3. How does a triangle relate to a rectangle?	4. What kind of triangle has three equal sides and three equal angles?

Name_____ Date _____ TWO

Area of Squares, Rectangles & Triangles

WARM UP

Skill : Area of squares and rectangles

1. Explain how you find the area of a rectangle.

2. A rectangle is 15 inches long and 12.5 inches wide. What is the area of the rectangle?

3. Explain how you find the area of a square and why it is different than finding the area of a rectangle.

4. A square has 4.5 centimeter sides. What is the area?

Name_____ Date _____ THREE

Area of Squares, Rectangles & Triangles

WARM UP

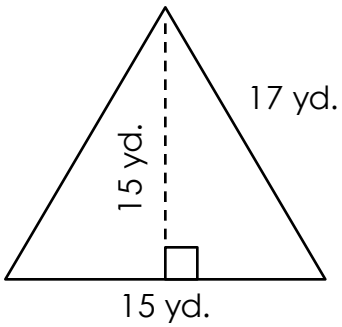
Skill : Area of squares, rectangles and triangles.

1. How do you find the length of a rectangle when you are given the total area and the width?

2. How do you find the area of a triangle and how does it relate to finding the area of a rectangle?

3. Find the area of a triangle that has a base of 12 inches and a height of 10 inches.

4. Find the area.



Name_____ Date _____

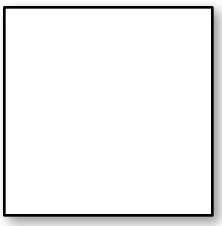
Area of Squares and Rectangles

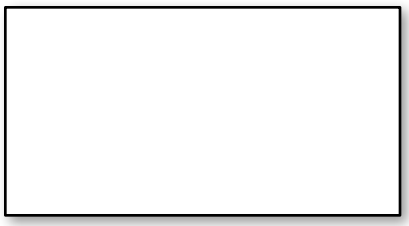
NOTES

Key Terms :

- Base – _____
- Height – _____

Label it : Label the base and height on each shape.





Calculate it :

The formula for finding the area of each shape is :

Squares :

$A = b \cdot h$ OR $A = s^2$

(b = base, h = height, s = side)

Rectangles :

$A = b \cdot h$

(b = base, h = height)

Try it :

Find the area of each shape.

Area = _____ Area = _____

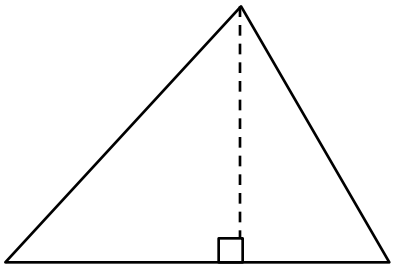
Name_____ Date _____

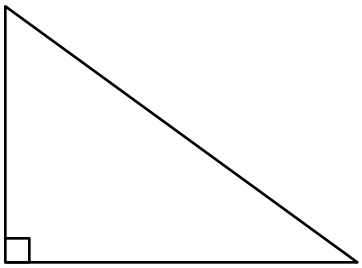
Area of Triangles NOTES

Key Terms :

- Base – _____
- Height – _____

Label it : Label the base and height on each shape.





Calculate it :

The formula for finding the area of a triangle is :

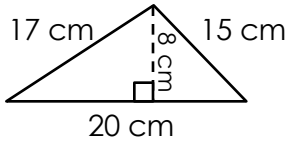
Triangles : $A = \frac{1}{2} b \cdot h$

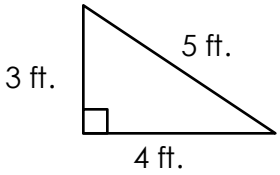
(b = base, h = height)

The area of a triangle is _____ the area of a rectangle because a triangle is made from _____.

Try it :

Find the area of each shape.





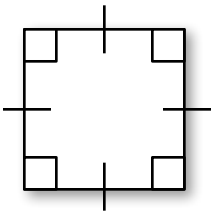
Area = _____ Area = _____

Name_____ Date _____

Area of Squares and Rectangles

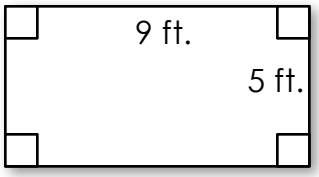
PRACTICE

1.



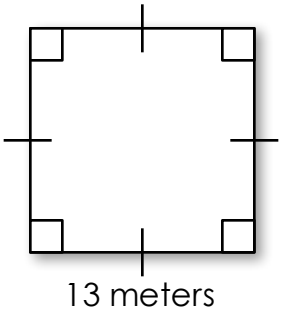
Area = _____

2.



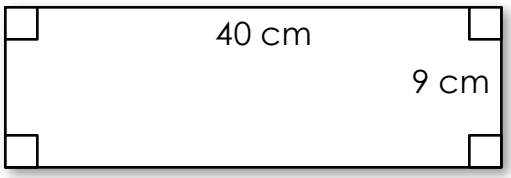
Area = _____

3.



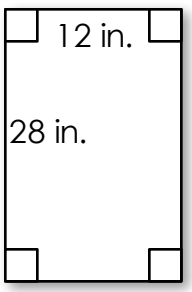
Area = _____

4.



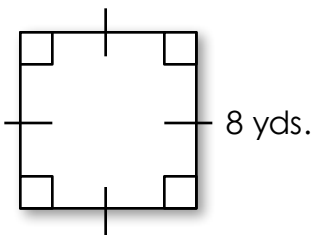
Area = _____

5.



Area = _____

6.



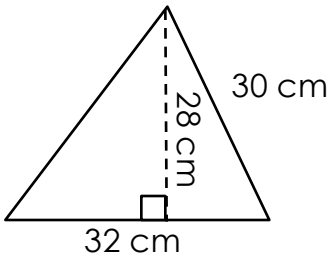
Area = _____

Name_____ Date _____

Area of Triangles

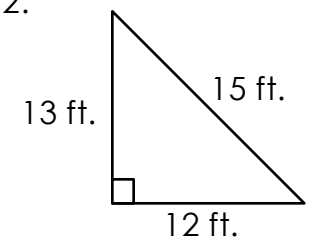
PRACTICE

1.



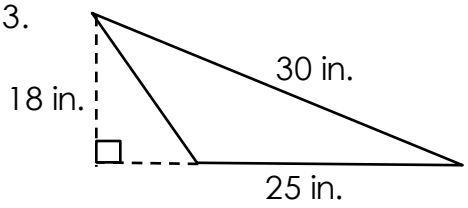
Area = _____

2.



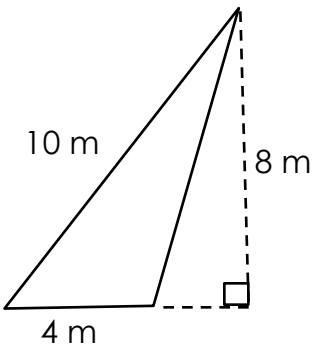
Area = _____

3.



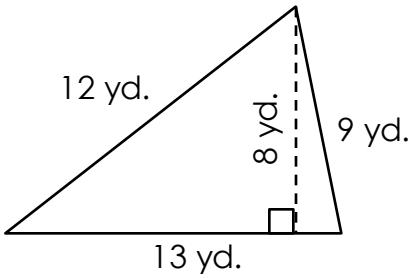
Area = _____

4.



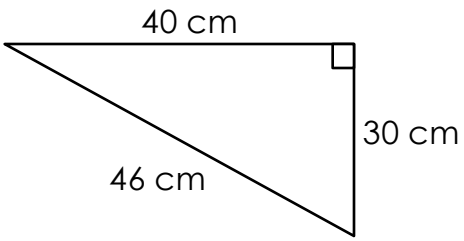
Area = _____

5.



Area = _____

6.



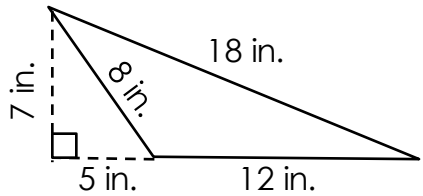
Area = _____

Name_____ Date _____

Area of Triangles & Rectangles

ERROR ANALYSIS

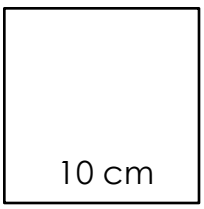
1. Two students found the area of the given triangle and they each came up with a different answer. Identify who is correct and which error(s) was made by the student who was incorrect.



EMMITT	HAZEL
½ • 17 • 7 59.5 inches^2	½ • 12 • 7 42 inches^2

2. Tavaris believes that he is able to use the formula $A = s^2$ when finding the area of a rectangle and a square since the formula $A = b \times h$ is able to be used for finding the area of a square and a rectangle. Is he correct? Explain why or why not and give an example.

3. Two students found the area of the given shape and they each came up with a different answer. Identify who is correct and which error(s) was made by the student who was incorrect.



GAVIN	MASON
10 • 10 100 cm^2	2 • 10 20 cm^2