lesson ten - student resource sheet

Lesson Objective: Divide a decimal by a whole number and a whole number by a decimal.

Vocabulary Box

repeating decimal – A decimal in which the digits endlessly repeat a pattern. Example: 31.83333. . . or $31.8\overline{3}$.

Independent Practice

Directions: Solve each problem carefully. Make sure you show all your work and check the decimal placement in your quotient.

1. $0.02\overline{)56}$
2. $25\overline{)0.275}$
3. $0.4\overline{)145}$
4. $12\overline{)5.6}$
5. $0.25\overline{)355}$
6. $0.16\overline{)1{,}000}$
7. $12\overline{)5.28}$
8. $0.4\overline{)672}$

BONUS?

Directions: Find each quotient.

1. $0.01\overline{)980}$

2. $5.275 \div 100$

3. $0.02\overline{)1{,}000}$

Directions: Solve each word problem, using problem-solving strategies. Watch carefully for the placement of the decimal point. Show your work and write each answer in a complete sentence using words from the problem.

1. Nina baby-sat for 5 hours and earned a total of $21.25. How much did Nina earn each hour?

2. Juan has 15 croquet balls in a bag. The total weight of all 15 balls is 21.6 pounds. How much does each ball weigh?

3. A piece of yarn is 45 inches long. If Emily cuts it into pieces that are 7.5 inches long, how many pieces will she have?

4. Kierra has 16 ounces of raisins. If she puts 3.2 ounces of raisins into each bag, how many bags will it take to hold all the raisins?

5. Greg made $277.50 last week. He worked 30 hours. How much does he make each hour?

Directions: Use what you know about dividing decimals to answer each question.

1. $2.2\overline{)264}$

2. $9\overline{)0.3}$

3. $5.12 \div 0.32 =$

lesson eleven - student resource sheet

Lesson Objective: Calculate the areas of rectangles, triangles, and irregular shapes.

Vocabulary Box

polygon – A closed figure made up of line segments that do not cross. Example: triangle, hexagon.

area – The number of square units that cover a shape or figure. Example: A square measuring 2 units along each side has an area of 4 square units.

Guided Practice

FORMULA BOX

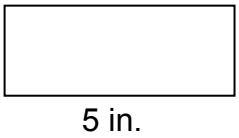
Rectangle_____

Triangle_____

Directions: Find the area of each polygon. Your teacher will review the answers. Be sure to write your answers using correct units.

NOTE: Figures are not shown in actual size.

1.



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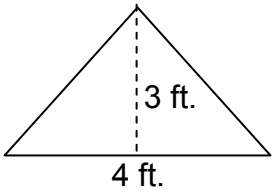

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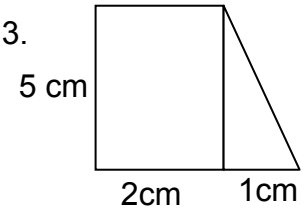

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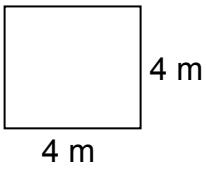
4. 

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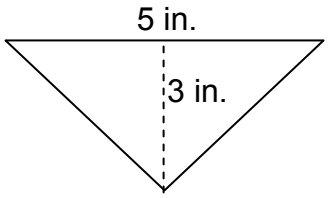
5. 

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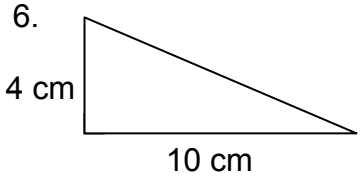
6. 

A= _____

Summary/Closure

A. Vocabulary Words

Directions: Write a sentence for each vocabulary word.

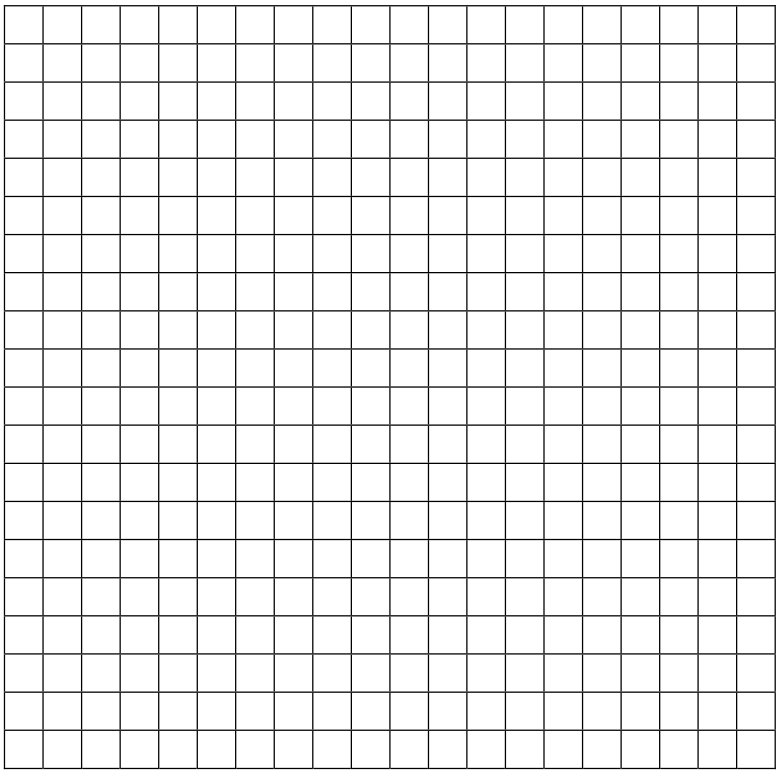
area — _____

polygon — _____

B. Summarize What We Learned Today

Draw an example of a polygon that can be broken up into a rectangle and a triangle. Label it with the necessary measurements, and calculate the area. Then explain in words how you calculated the area.

lesson eleven - student resource sheet



Lesson Objective: Calculate the areas of rectangles, triangles, and irregular shapes.

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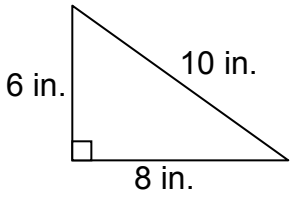
Independent Practice

Directions: Complete the following practice problems on your own. Your teacher will review the answers. Make sure you use correct units for each answer.

I. Write the height and base of each triangle.

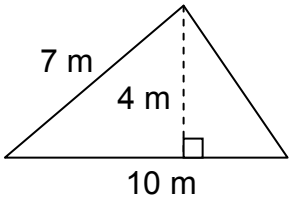
1.



base_____

height_____

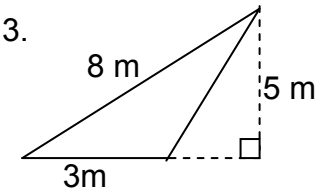
2.



base_____

height_____

3.

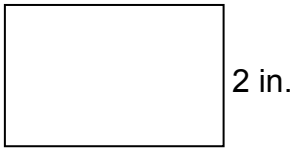


base_____

height_____

II. Calculate the area of each polygon.

1.



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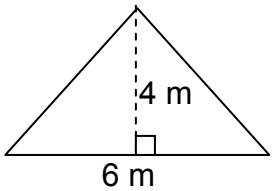
2.



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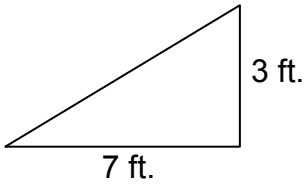
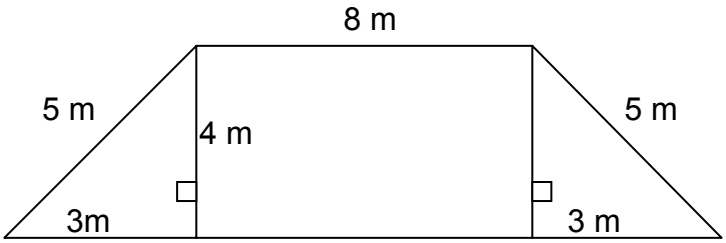


A= _____

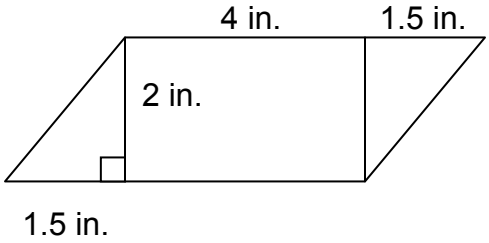
III. Calculate the area of each polygon. Show your work.

1.



A = _____

2.



A = _____

BONUS?

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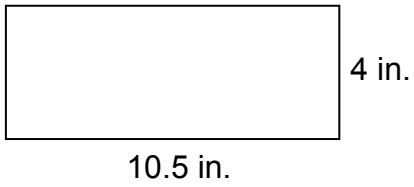
1. A triangle has an area three times the area of the rectangle shown.



What is the area of the triangle?

2. The length of a rectangle is twice its width. If the area of the rectangle is 50 square meters, what are the length and width of the rectangle?

Directions: Use problem-solving strategies to solve the word problems. Make sure you show all your work.

Eli's science teacher has asked him to design a garden. He has 40 feet of fencing to go around the perimeter, or outside edge, of the garden. The fencing is thick and Eli is unable to cut it, so he has to use all 40 feet of the fencing.

1. If Eli decides to design the garden in the shape of a square, what would be the length of each side?

2. What would be the area of the square garden?

3. If Eli designs the garden in the shape of a rectangle with a length of 15 feet, how wide would the garden be?

4. What would be the area of the rectangular garden?

Directions: Use what you know about area to answer the questions.

1. What is the area of an index card that is 3 inches wide and 5 inches long?

2. What is the area of a triangle with a base of 12 meters and a height of 4 meters?

3. What is the area of the polygon below?