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Unit 6, Activities 2, 3, 7, and 14, Grid Paper

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Unit 6, Activities 2, Perfect Squares

Name _____

Date _____

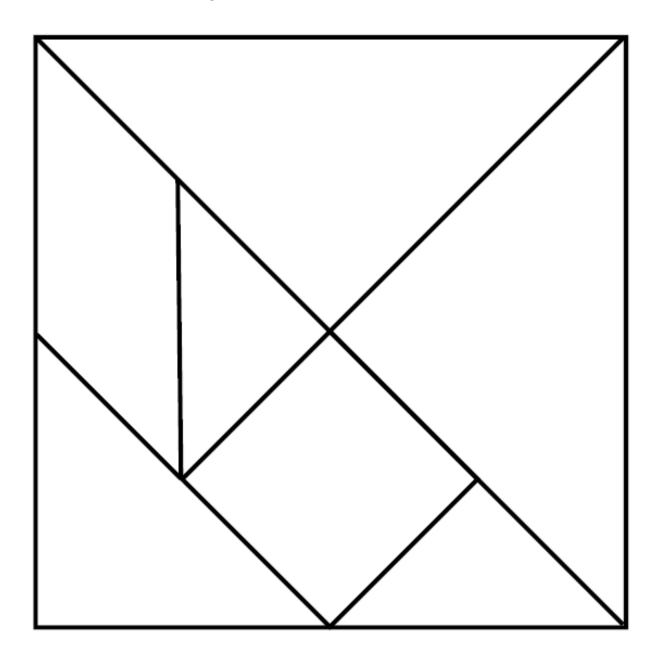
Dimensions of the Square (units)	Number Squared	Area (square units)

Unit 6, Activities 2, Perfect Squares with Answers

Name _____

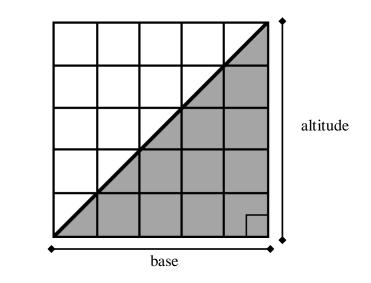
Date _____

Dimensions of the Square (units)	Number Squared	Area (square units)
1 × 1	12	1
2 × 2	22	4
3 × 3	32	9
<i>4</i> × <i>4</i>	4 ²	16
5 × 5	52	25
6 × 6	62	36
7 × 7	72	49
8 × 8	8 ²	64
9 × 9	9 ²	81
<i>10 × 10</i>	102	100
11 × 11	112	121
<i>12 × 12</i>	122	144

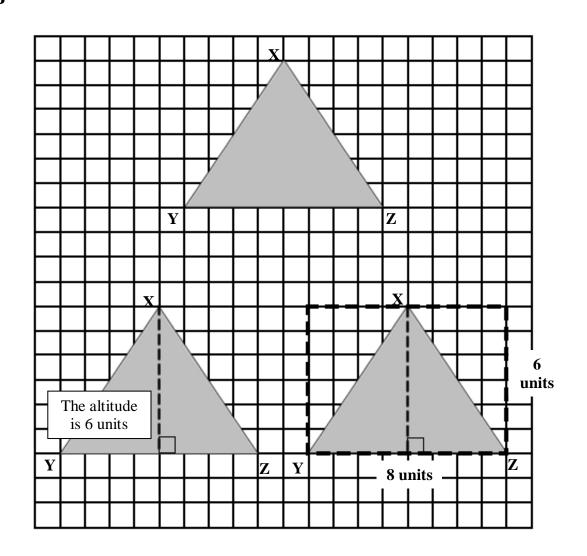


Unit 6, Activity 5, Triangle





Part B



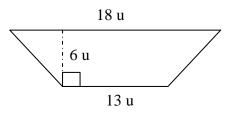
Unit 6, Activity 5, Area

Name _____

Date _____

Solve the following problems.

- 1. Find the area of a triangle with a base length of five units and a height of six units.
- 2. Find the area of the trapezoid shown below by decomposing it into a rectangle and triangles.



3. The sixth grade class at Louisiana Middle School is building a giant wooden L for their school. The L will be 12 feet tall and 8 feet wide and the thickness of the block letter will be 2.5 feet. What is the area of the L?



Name _____

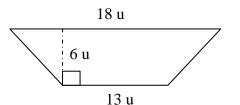
Date

Solve the following problems.

1. Find the area of a triangle with a base length of five units and a height of six units.

 $A = \frac{1}{2} (b \times h)$ $A = \frac{1}{2} (5 \times 6)$ A = 15 square units

2. Find the area of the trapezoid shown below by decomposing it into a rectangle and triangles.



Area of 1 Triangle Base = 2.5 uHeight = 6 u $\frac{1}{2} (2.5 \times 6)$ 7.5 sq. units

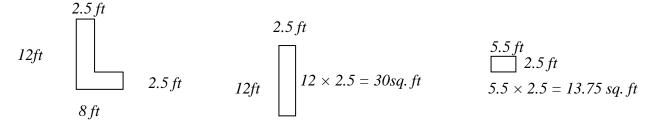
Rectangle
Length = $13 u$
Width = 6 u
13×6
78 sq. units

7.5 + 7.5 + 78 = 93 sq. units

3. The sixth grade class at Louisiana Middle School is building a giant wooden L for their school. The L will be 12 feet tall and 8 feet wide and the thickness of the block letter will be 2.5 feet. What is the area of the L?

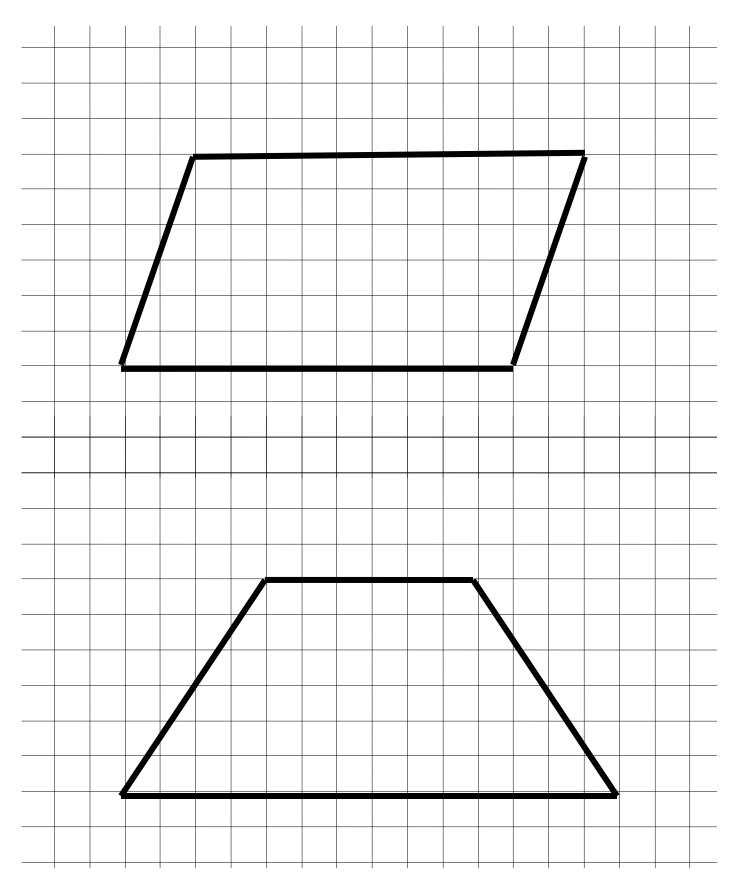


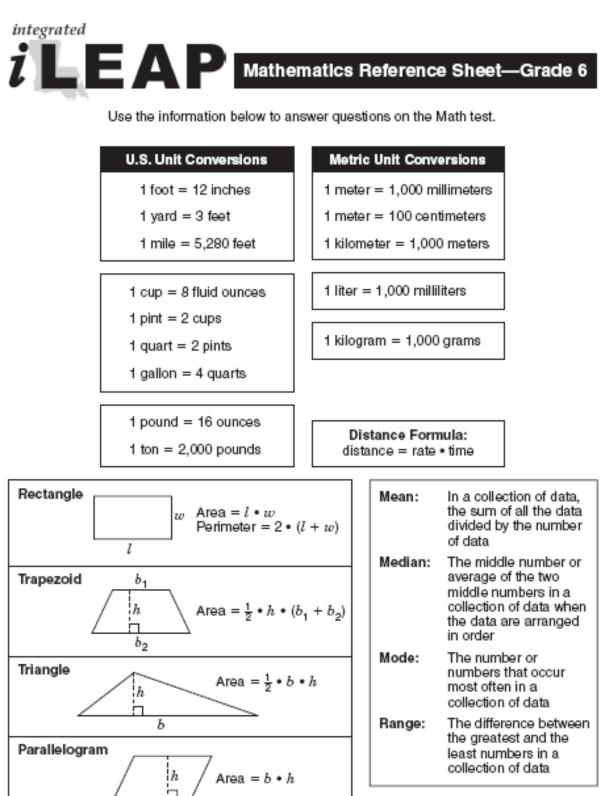
One possible way to find the area



$$30 + 13.75 = 43.75$$
 sq. ft

Unit 6, Activity 6, Quadrilaterals



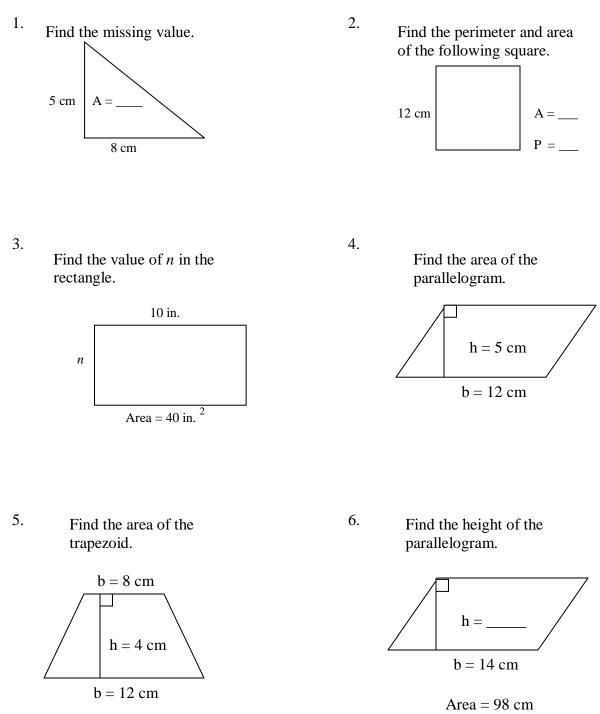


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Unit 6, Activity 6, Area and Perimeter

 Name
 Date

 Use the formulas on the iLEAP Reference sheet to solve the following problems.

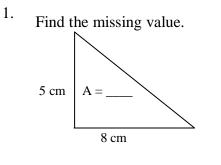


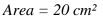
Unit 6, Activity 6, Area and Perimeter with Answers

Name _____

Date

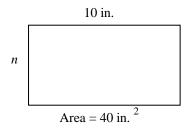
Use the formulas on the iLEAP Reference sheet to solve the following problems.





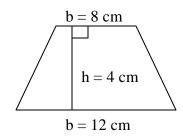
3.

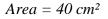
Find the value of n in the rectangle.

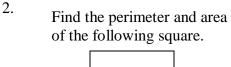


$$n = 4$$
 in.

5. Find the area of the trapezoid.





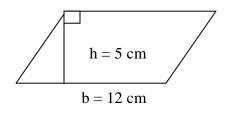


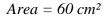


 $Area = 144 \text{ cm}^2$ Perimeter = 48 cm

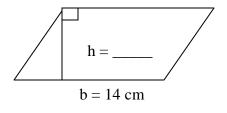
4.

Find the area of the parallelogram.





6. Find the height of the parallelogram.



Area = 98 cm

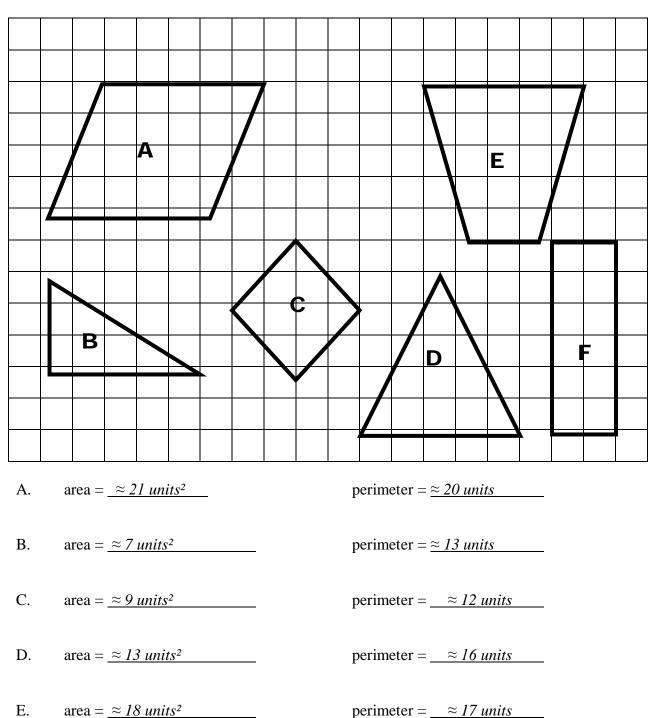
h = 7 cm

Unit 6, Activity 7, 2-D Shapes

Α Ε В F D perimeter = _____ A. area = _____ perimeter = _____ B. area = _____ C. area = perimeter = _____ perimeter = _____ D. area = _____ E. area = _____ perimeter = _____ area = _____ perimeter = _____ F.

Estimate the area and perimeter of each shape. Explain how you found your answers.

Unit 6, Activity 7, 2-D Shapes with Answers



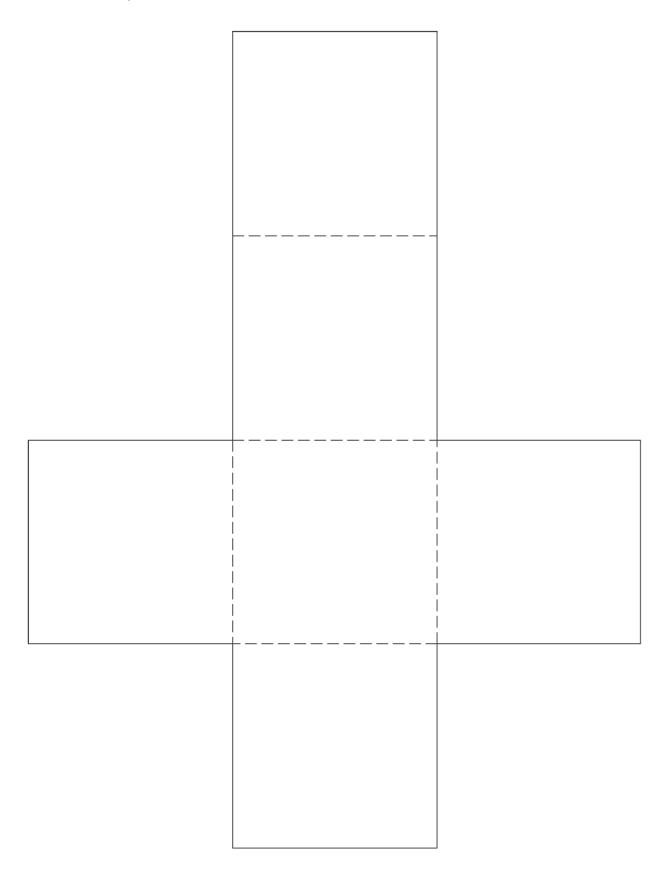
Estimate the area and perimeter of each shape. Explain how you found your answers.

Blackline Masters, Mathematics, Grade 6

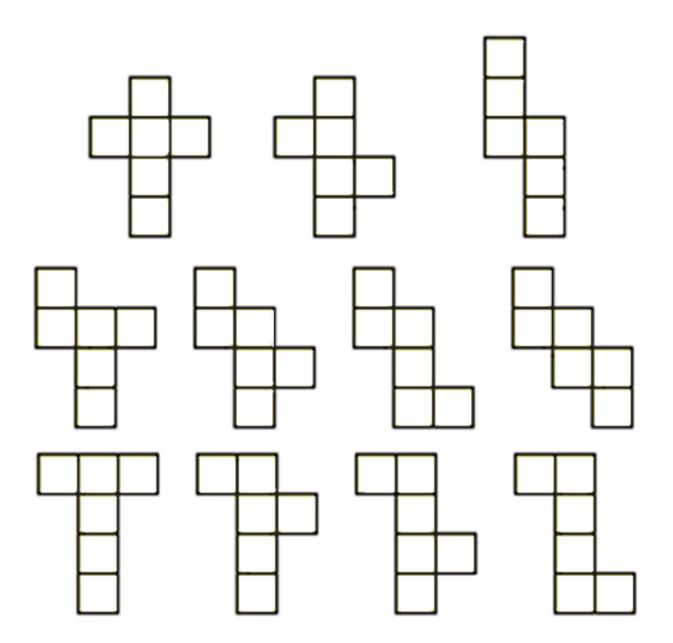
area = $\underline{\approx 12 \text{ units}^2}$

F.

perimeter = $\simeq 16 \text{ units}$



Unit 6, Activities 10 and 11, 1 Inch Grid Paper



Name _____

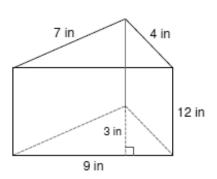
Date _____

Draw the net and label the dimensions. Find the surface area.

1. 5 cm 1 cm 1 cm2.



3.

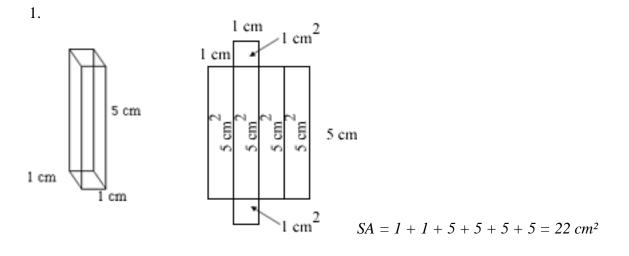


Unit 6, Activity 11, Surface Area with Answers

Name _____

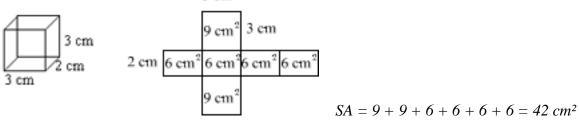
Date _____

Draw the net and label the dimensions. Find the surface area.

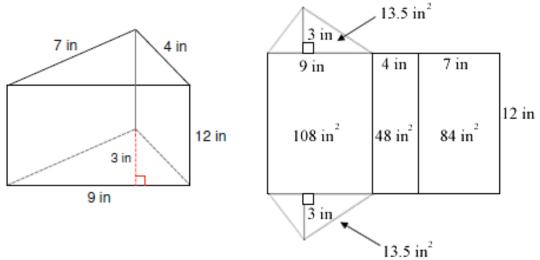


2.





3.



 $SA = 13.5 + 13.5 + 108 + 48 + 84 = 267 in^2$

Figure 1:

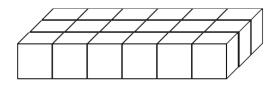


Figure 2:

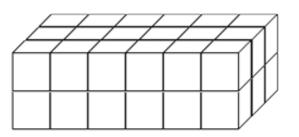
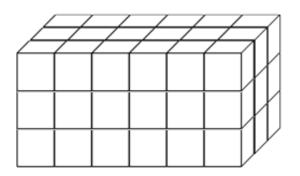


Figure 3:



Name _____ Date ____

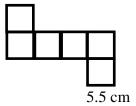
Solve the following problems.

Given the following dimensions, find the volume of each rectangular prism.

1. l = 4 ft w = 2 ft $h = 4\frac{1}{2}$ ft

2. l = 2 cm w = 6 cm h = 7.5 cm

- 3. l = 9 in $w = 10 \frac{1}{2}$ in h = 4 in
- 4. $l = 4\frac{1}{2}$ m w = 4.5 m h = 4.5 m
- 5. $l = 1\frac{1}{2}$ ft w = 2.5 ft h = 6.5 ft
- 6. A sand box is 5 ft. long 4³/₄ ft. wide and 1¹/₂ ft. deep. How many cubic feet of sand can it hold?
- 7. Find the volume.



Name				Date							
Solve	Solve the following problems.										
Giver	Given the following dimensions, find the volume of each rectangular prism.										
1.	l = 4 ft	w = 2 ft	$h = 4 \frac{1}{2}$ ft	36 ft ³							
2.	l = 2 cm	w = 6 cm	h = 7.5 cm	90 cm ³							
3.	l = 9 in	$w = 10 \frac{1}{2}$ in	h = 4 in	378 in ³							
4.	$l = 4 \frac{1}{2}$ m	<i>w</i> = 4.5 m	h = 4.5 m	91.125 m^3 or 91 $\frac{1}{8}m^3$							
5.	<i>l</i> = 1½ ft	<i>w</i> = 2.5 ft	h = 6.5 ft	24.375 ft ³ or 24 $\frac{3}{8}$ ft ³							

6. A sand box is 5 ft. long 4³/₄ ft. wide and 1¹/₂ ft. deep. How many cubic feet of sand can it hold?

$$35.625 \, ft^3 \, or \, 35 \frac{5}{8} \, ft^3$$

7. Find the volume.

$$5.5 \times 5.5 \times 5.5 = 166.375 \ cm^3 \ or \ 166 \ \frac{3}{8} \ cm^3$$