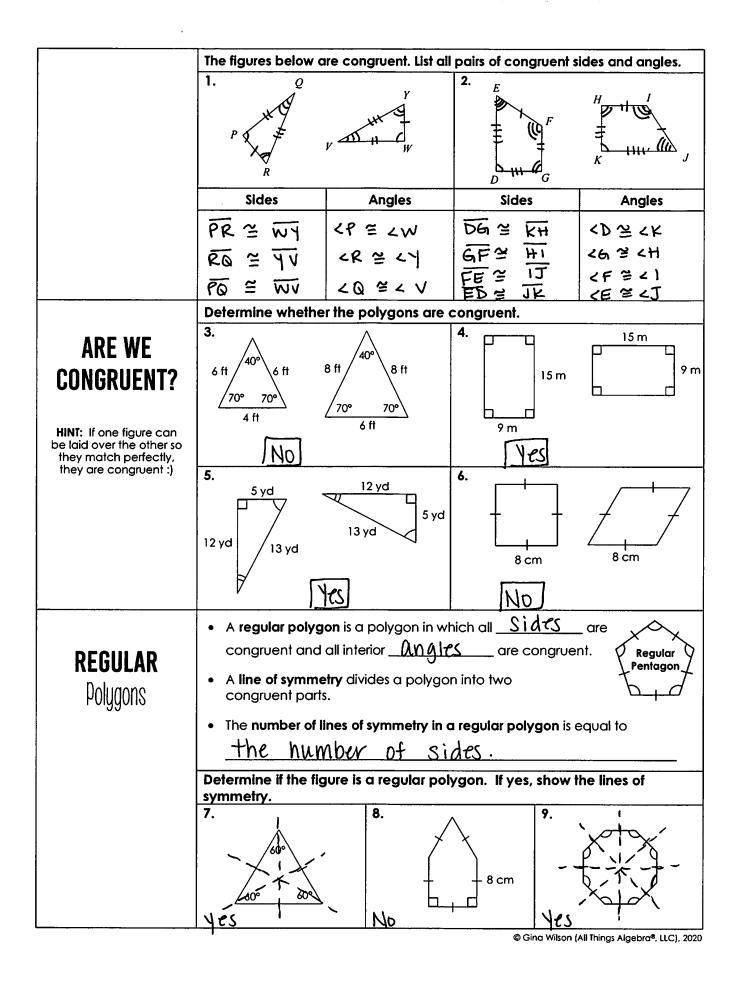
Name:		Date:	
Topic: Class:		Class:	
Main Ideas/Questions	Notes/Examples		
SEGMENT	• A segment is a line with <u>+wo</u>	endpoints x	
JEOMENI	Name the segment to the right:	$\overline{XY}$	
	An angle is formed by <u>+wo</u>		
ANGLE	at a common endpoint, called t		
	Name the angle to the right:		
	• A polygon is a <u>Closed</u>	<u>figure</u> <sup>p</sup>	
	formed at least three line segme	ents called	
POLYGON	<u>sides</u> .		
	Examples: Triangles, Rectangles     Trapezoids, Pentagons, Hexagor	· · · · ·	
	• Congruent means to have the <u>SAME</u> <u>MEASURE</u> .		
CONGRUENT	Symbol for congruent:  Congruent Line Segments Congruent Angles		
Segments & Angles			
grint	Segments are congruent if they have the same length.	Angles are congruent if they have the same measure.	
	A		
	4 in. 4 in.	50°	
	B C	$J \xrightarrow{50^{\circ}} K$	
	Notation: $\overrightarrow{AB} \cong \overrightarrow{CD}$	Notation: ∠J ≅ ∠K	
	Congruent polygons have the sa	ime <u>ANALES</u> and <u>sides</u> .	
<b>CONGRUENT</b> Polygons			
	All corresponding sides are co	pongruent. $(\overline{AB} \cong \overline{DE}, \overline{BC} \cong \overline{EF}, \overline{AC} \cong \overline{DF})$	
	All corresponding angles are	congruent. $(\angle A \cong \angle D, \angle B \cong \angle E, \angle C \cong \angle F)$	

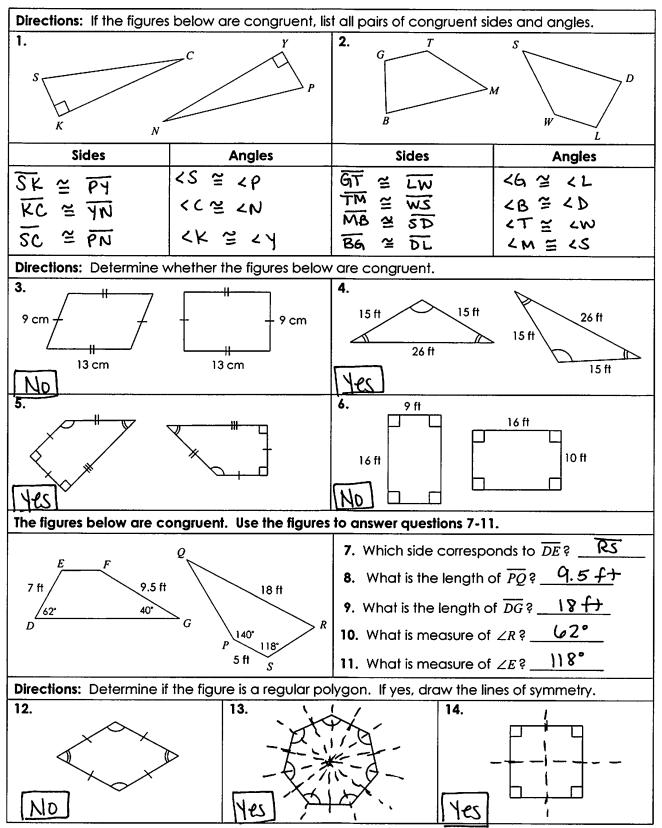
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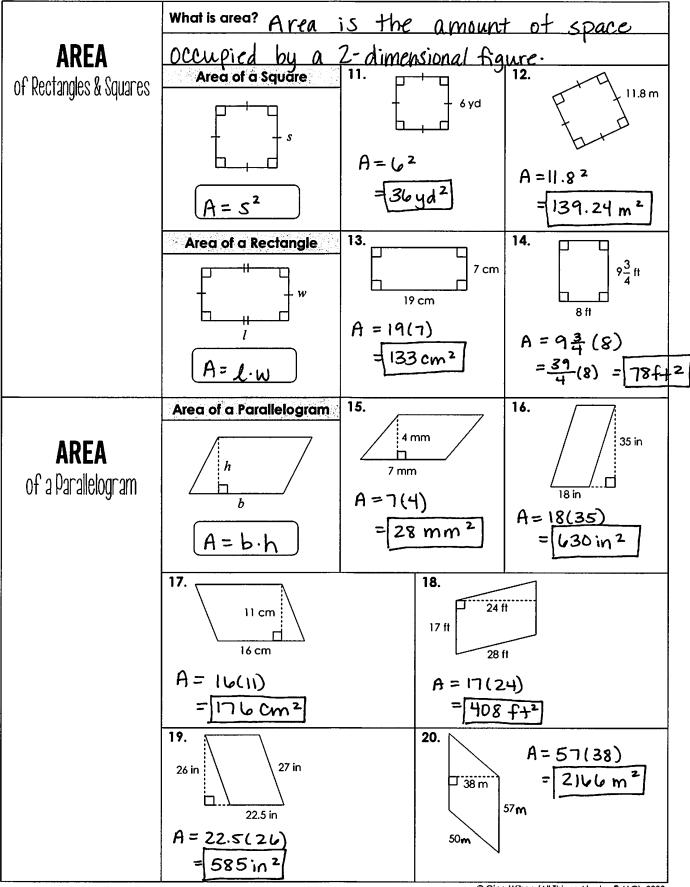
Name: \_\_\_\_\_

**Unit 7:** Measurement and Geometry

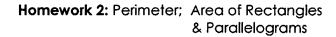
Date: \_\_\_\_\_ Per: \_\_\_\_ Homework 1: Polygons & Congruency

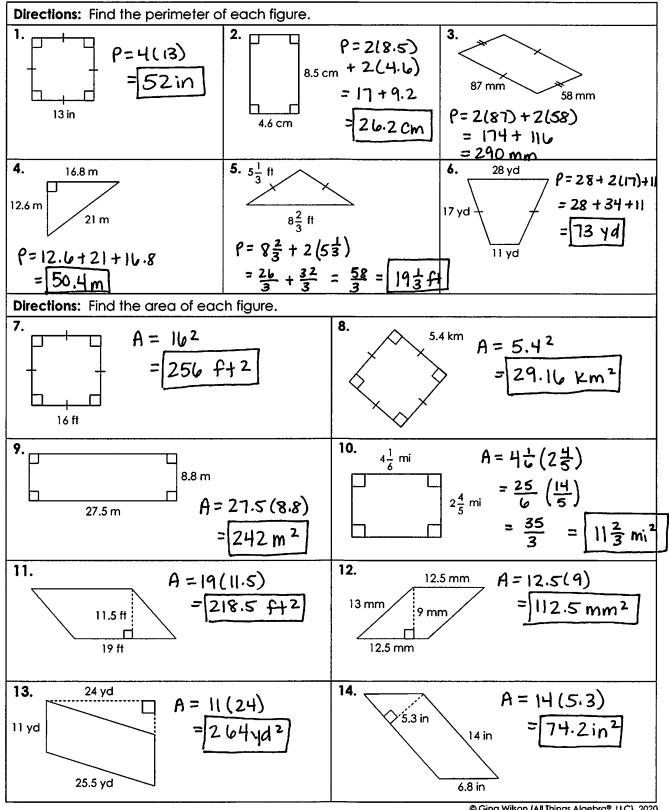


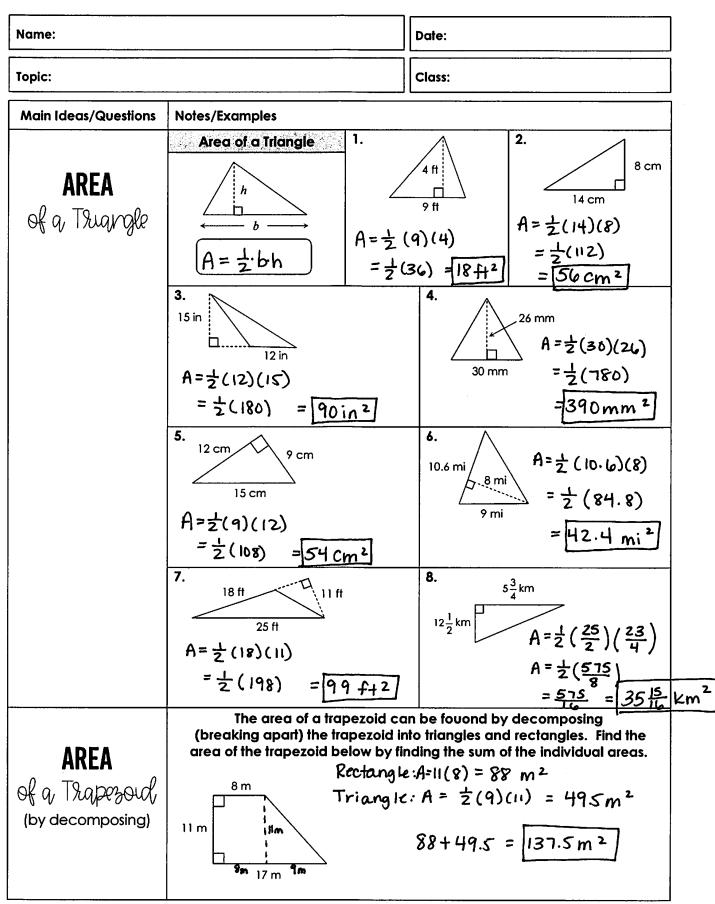
Name:			Date:	
Topic:			Class:	
Main Ideas/Questions	Notes/Examples			
	What is perimeter? Peri	imeter	is the si	um of the
<b>PERIMETER</b> of Squares & Rectangles	Side Measures avoid Perimeter of a Square $P = 4 \cdot S$ Perimeter of a Rectangle		-dimension 	
	Find the perimeter of each	P = 2(1 = 2( = 4	13  in 3) + 2(9) 5 + 18 110 000	P = 2(6.8) + 2(8.5) = 13.6 + 17 = 30.6 mm
<b>PERIMETER</b> of other Figures	5. f = 21  ft $\rho = 2(26) + 2(21)$ = 52 + 42 = 94  ft		<b>6.</b> 7 km	P=2(7)+2(19.8) = 14 + 39.6 2.8 km = 53.6 km
	7. 14 in 17 in P = 14 + 17 + 25 = 50		$\begin{array}{c} \textbf{8.} \\ & 4\frac{1}{3}\text{ cm} \end{array}$	$f = 4\frac{1}{3} + 2(5\frac{2}{3})$ $= \frac{13}{3} + \frac{34}{3}$ $= \frac{47}{3} = 15\frac{2}{3} \text{ cm}$
	<u>→</u> → 7.4 m	12.8 .7.4) 1.3 m	10. 40 ft 15 ft 27 ft	P = 40 + 44 + 15 + 27 $= 126 + 12$ $44  ft$ a Wilson (All Things Algebra®, LLC), 2020

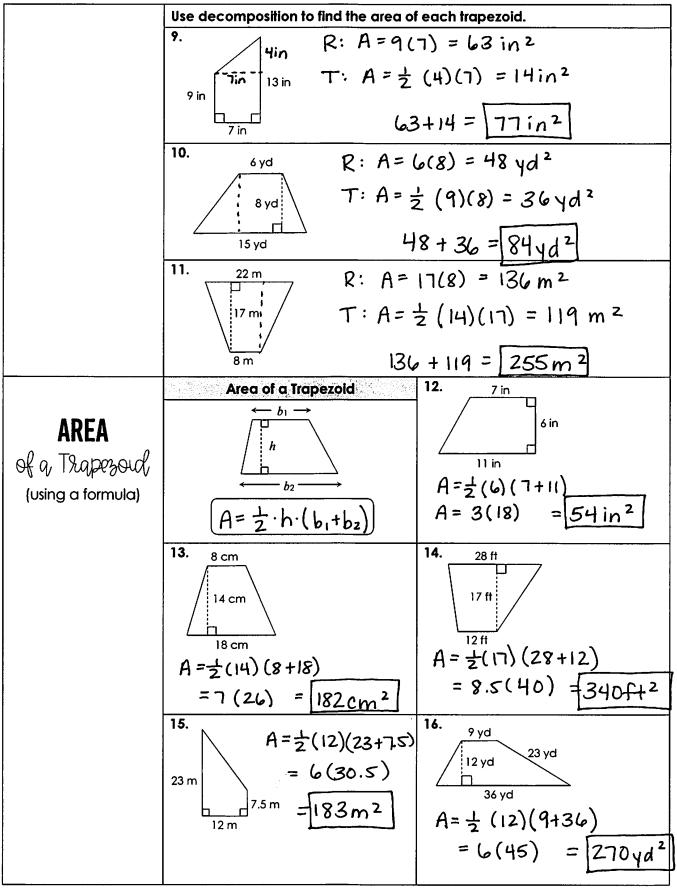


Name: \_\_\_\_\_ Date: \_ Per: Unit 7: Measurement and Geometry



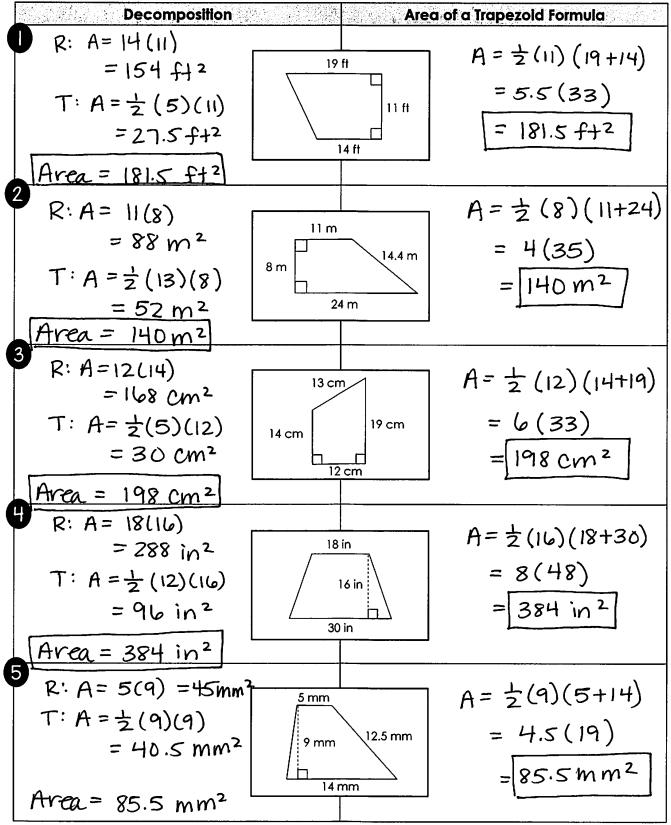


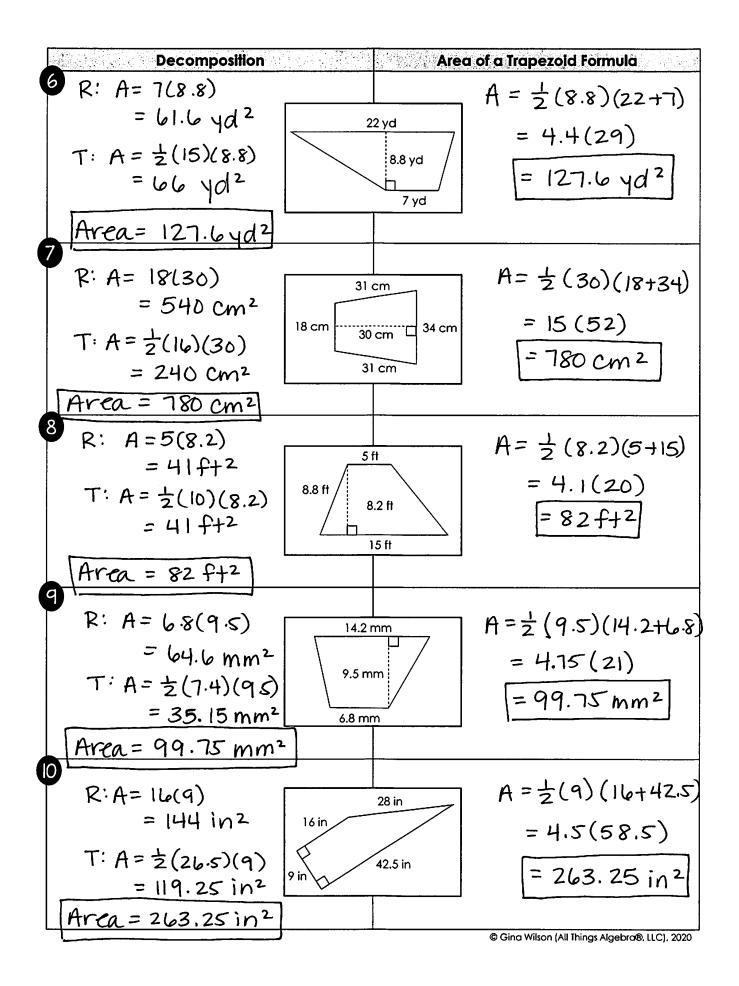




## AREA of a TRAPEZOID

**Directions:** Find the area of the trapezoid in the middle using decomposition and the area of a trapezoid formula. If done correctly, your answers should be the same!



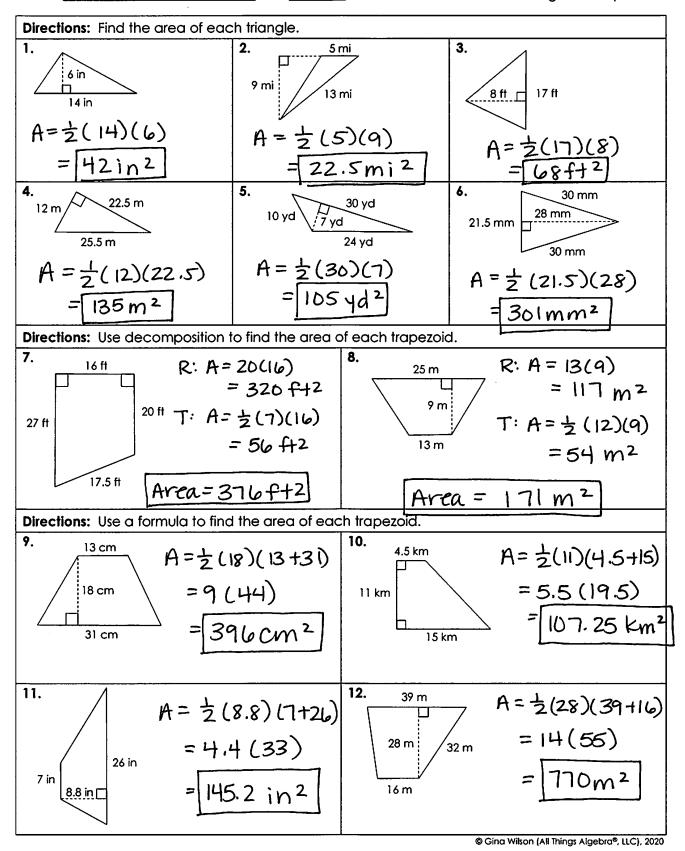


Name: \_

Unit 7: Measurement and Geometry



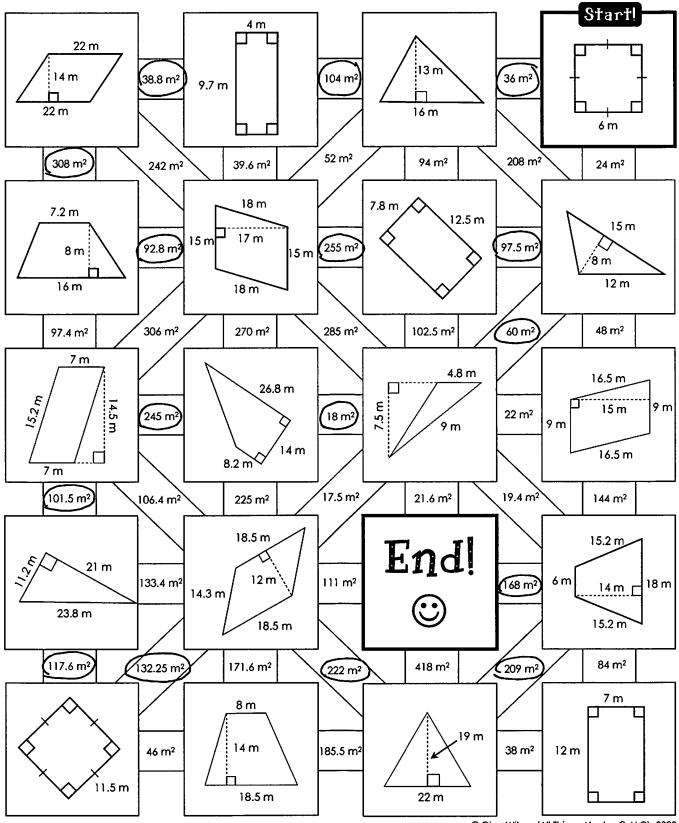
Homework 3: Area of Triangles & Trapezoids



Per:

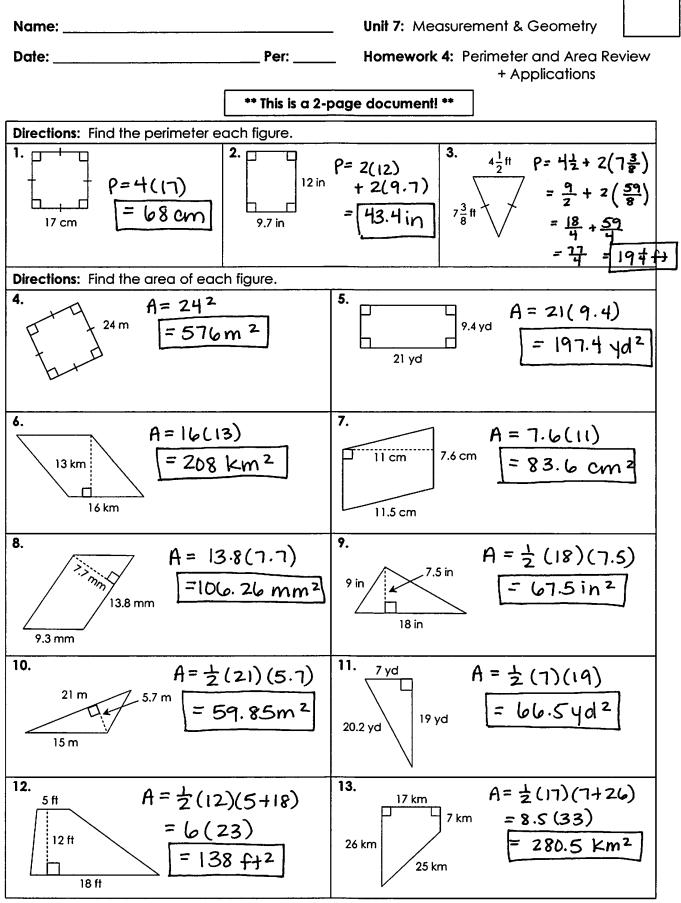
## Area of Plane Figures Maze!

Directions: Find the area of each figure Use your solutions to navigate through the maze. SHOW ALL WORK on a separate sheet of paper and attach it to this page!

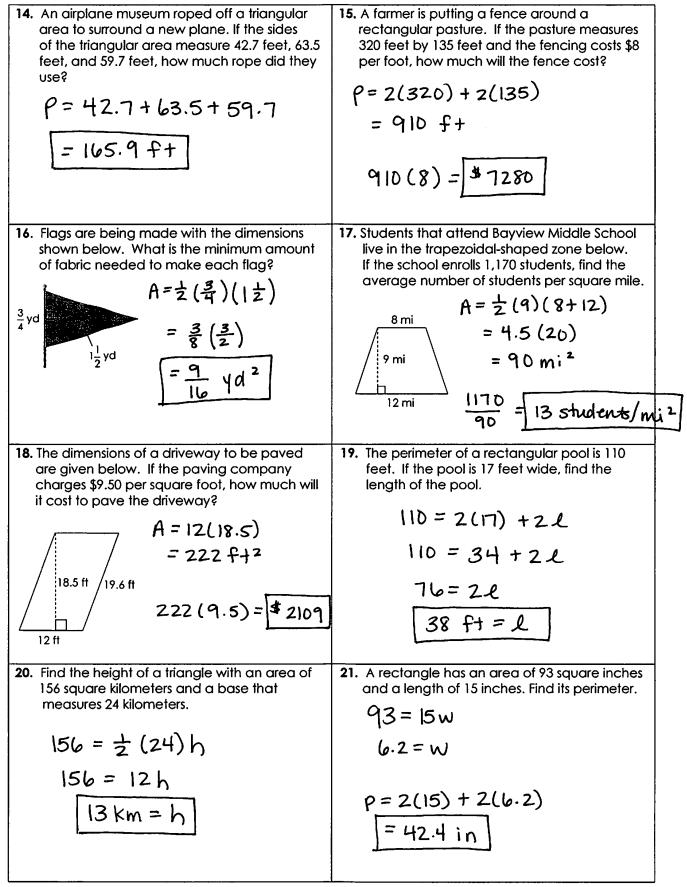


Name:		Date:
Topic:		Class:
Main Ideas/Questions	Notes/Examples	, <u> </u>
<b>PERIMETER</b> Applications	<ol> <li>A triangular garden has sides measuring 14 feet, 17 feet, and 28 feet. If Cody is laying a brick border around the garden, how many feet of brick will he lay?</li> <li>P=14+17+28 = 59 f+</li> </ol>	2. A tennis court is 78 feet long by 36 feet wide. If Sydney runs along the edge of the court twice, how far will she run? P = 2(78) + 2(36) = 228 $2(228) = 456  fr$
AREA Applications	3. Levi walked the rectangular path to the right. If his friend Marcus walked the trapezoidal path, how much further did Levi walk than Marcus? LCvi : $P = 2(17) + 2(3.2)$ = 9.8 Marcus: $P = 1.7 + 3.2 + 0.5 + 3.1 = 8.8$ [mi] 5. A corner cabinet has triangular shelves the with dimensions shown below. If the shelves are being covered with shelving paper, what is the minimum amount of paper needed for each shelf? $A = \frac{1}{2}(21)(16)$ = 168  in  2	4. An iron dinner bell is in the shape of an equilateral triangle with a side length of $8\frac{5}{8}$ inches. Find the length of the rod used to create the bell. $P = 3(8\frac{5}{8})$ $= 3(\frac{69}{8})$ $= 207$ = $25\frac{7}{8}$ in 6. A wooden stage is in the shape of a trapezoid with dimensions shown below. What is the area of the stage? $30 \text{ ft}$ $A = \frac{1}{2}(26)(30+42)$ = 13(72) $= 936 \text{ ft}^2$
6 in 8 in 12 in 16 in	7. Sam cut a piece of pizza from the rectangular pizza to the left and ate it. What fraction of the pizza did he eat? T: $A = \frac{1}{2}(6)(8) = 24 \text{ in } 2$ R: $A = 12(16) = 192 \text{ in } 2$ $\frac{24}{192} = \frac{1}{8}$ Sam ate $\frac{1}{8}$ of the pizz	8. Mia's bed is 6.5 feet long by 5 feet wide. She would like a quilt large enough to cover the bed and hang off by 2 feet along the sides and foot of the bed. What is the minimum amount of fabric needed for the quilt? ( s fi - fi + fi + fi) = fi $A = 8.5(9) = 76.5 ft^2$

15 mi 32 mi	9. A county is in the shape of a parallelogram with dimensions shown to the left. If 12,000 people live in the county, find the average number of people per square mile. $A = 32(15) = 480 \text{ mi}^2$ $\frac{12000}{480} = 25 \text{ people / mi}^2$	<ul> <li>10. Mikayla is replacing the carpet in her rectangular living room. If her living room is 16 feet by 21 feet and the carpet costs \$3.50 per square foot, find the total cost.</li> <li>A = 16(21) = 336 ft<sup>2</sup></li> <li>336(3.50) = #1176</li> </ul>
Finding DIMENSIONS	11. The perimeter of a rectangle is 84 inches. If the width is 13 inches, find the length of the rectangle. $P = 2L + 2W$ $84 = 2L + 2(13)$ $84 = 2L + 26$ $-26$ $-26$ $\frac{58 = 2L}{2}$ $L = 29 \text{ in}$	12. Find the side length of a square with a perimeter of 188 feet. P = 4S $\frac{188}{4} = \frac{4S}{4}$ $\frac{47f+}{5} = 5$
	13. A rectangle has an area of 34.2 square meters. If the width of the rectangle is 4.5 inches, find its length: $A = l \cdot w$ 34.2 = l(4.5) 4.5 7.6 in = l	14. The area of a triangle is 52 square centimeters. If the base of the triangle is 13 centimeters, find its height. $A = \frac{1}{2} b \cdot h$ $52 = \frac{1}{2} (13)h$ $52 = \frac{1}{2} (13)h$ $6.5 = \frac{1}{6.5} h$ $8cm = h$
	15. Find the area of a rectangle that has a length of 16 yards and a perimeter of 54 yards. P=2L+2W $54=2(16)+2W$ $54=32+2W$ $22=2W$ $1A=16(11)$ $1=W$ $1=126  yd$	16. An equilateral triangle has an area of 97.5 square meters. If the height of the triangle is 13 meters, find the perimeter of the triangle. $A = \frac{1}{2}bh$ $97.5 = \frac{1}{2}b(13)$ 97.5 = 6.5b 15 = b P = 3(15) = 45m



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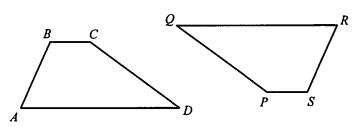


 Name:
 Math 6

 Date:
 \_\_\_\_\_\_Per:
 Unit 7: Measurement & Geometry

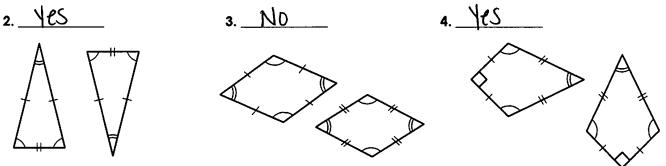
## Quiz 7-1: Congruency; Perimeter & Area of Polygons

1. If the figures below are congruent, list all pairs of congruent sides and angles.

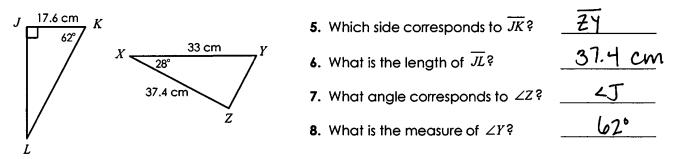


Sides	Angles
AB ≅ RS	<a <="" r<="" td="" ~=""></a>
BC ~ SP	< B 🖆 < S
CD = PQ	<c <p<="" td="" ≥=""></c>
DA = QR	< D ^ < Q

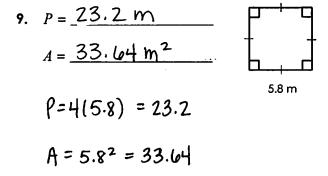
Determine whether the pair of polygons are congruent. (Answer yes or no.)

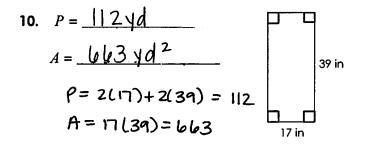


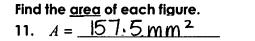
The figures below are congruent. Use the figures to answer questions 5-8.

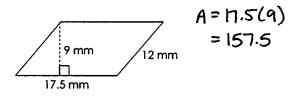


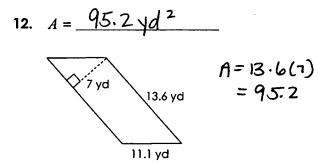
Find the <u>perimeter</u> and <u>area</u> of each figure.









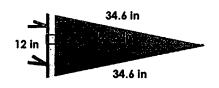


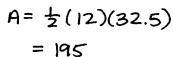
13. 
$$A = \frac{73.6 \text{ m}^2}{A = \frac{16 \text{ m}}{2}(9.2)(16)}$$
  
18.5 m  
9.2 m  
9.2 m

14. 
$$A = 33.15 \text{ in}^2$$
  
 $A = \frac{1}{2}(13)(5.1)$   
13 in  
5.1 in  
6 in  
 $A = 33.15$ 

15. 
$$A = \frac{658 \text{ f}^{2}}{12 \text{ ft}}$$
  
16.  $A = \frac{345 \text{ km}^{2}}{15 \text{ km}}$   
17.  $A = \frac{1}{2} (15)(19+27)$   
18.  $A = \frac{1}{2} (15)(19+27)$   
19.  $A = \frac{1}{2}$ 

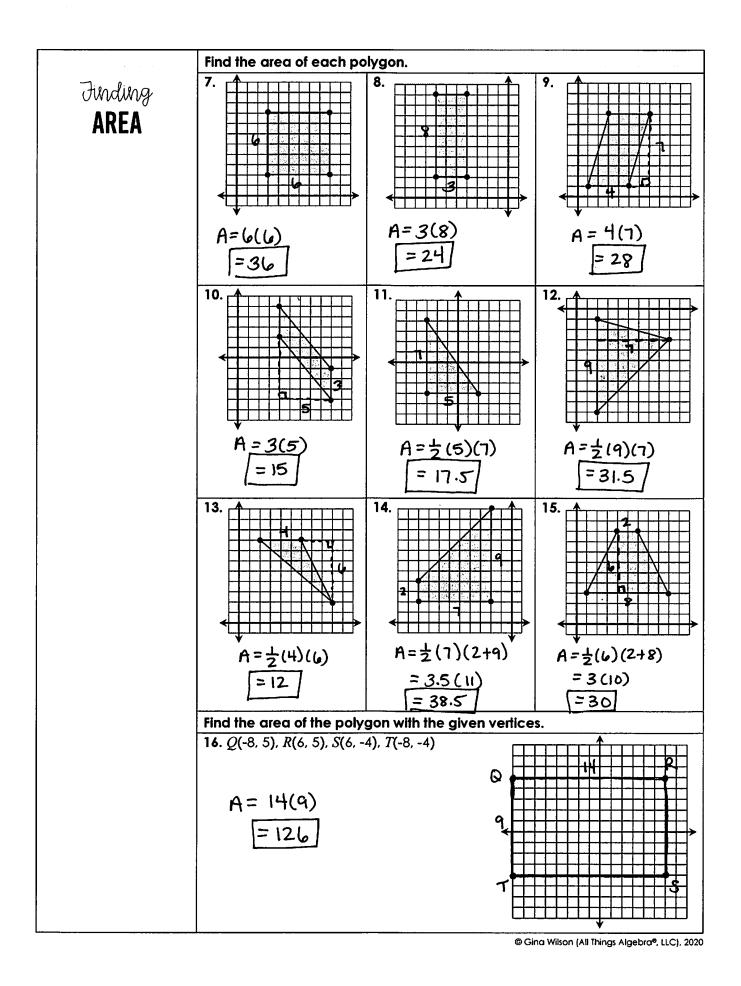
17. What is the minimum amount of fabric needed to create the pennant below?

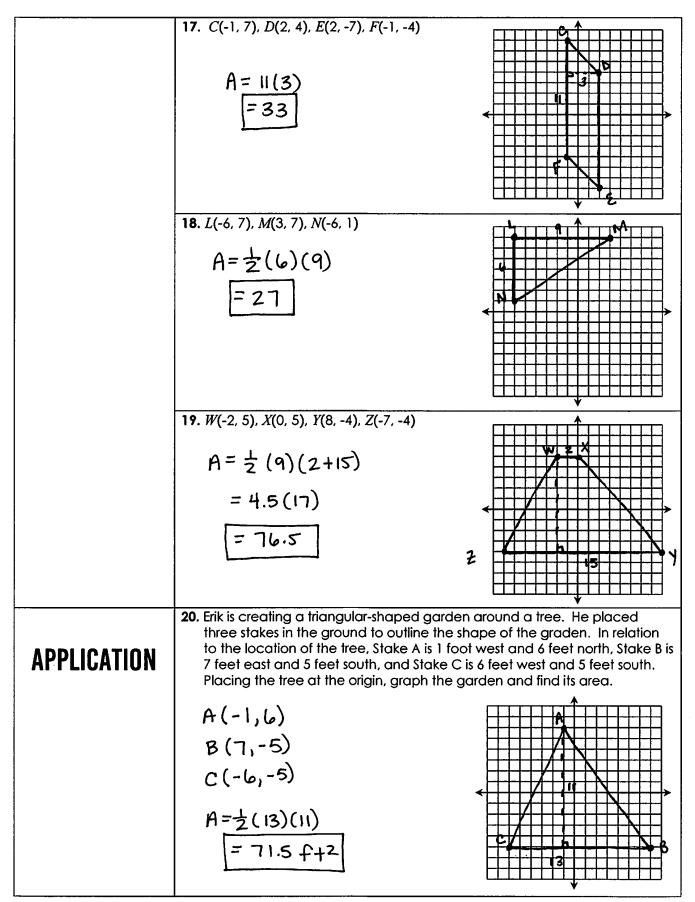




Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples	
<b>POLYGONS IN THE</b> Coordinate Plane	Ordered pairs can be used to reprine a polygon in a coordinate plane, p Graph and label each polygon with the second seco	esent vertices of polygons. To draw plot and connect the ordered pairs. the given vertices. 2. P(-5, 2), Q(1, 7), R(4, -3)
· · · · · · · · · · · · · · · · · · ·	Find the perimeter of each polygon.	
Jinding PERIMETER	3. 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	Find the perimeter of the polygon wit	
	<b>5</b> . J(4, 1), K(4, 14), L(10, 14), M(10, 1)	<b>6.</b> S(-7, 3), T(1, 3), U(1, -5), V(-7, -5)
	P = 38	P= 32
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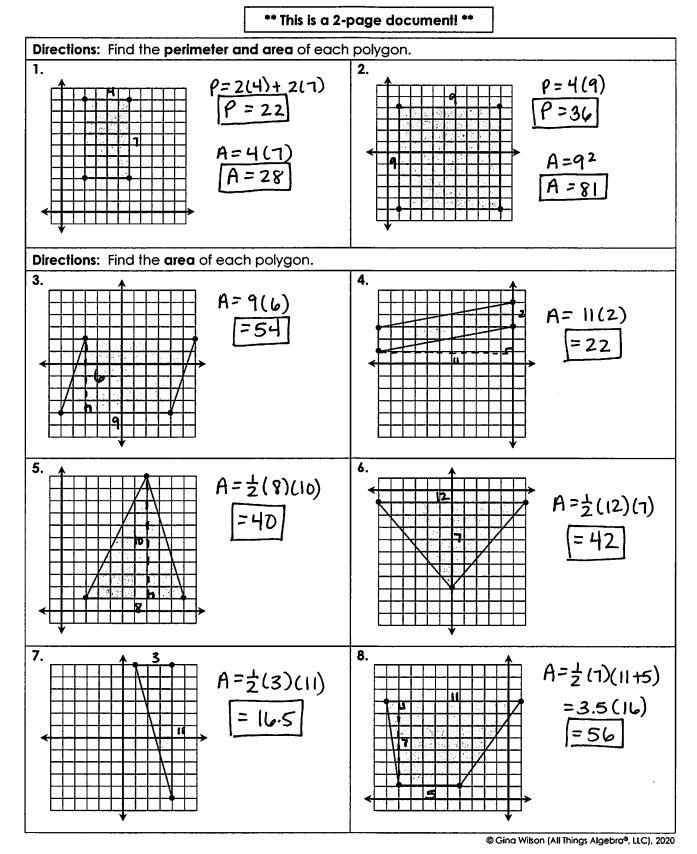


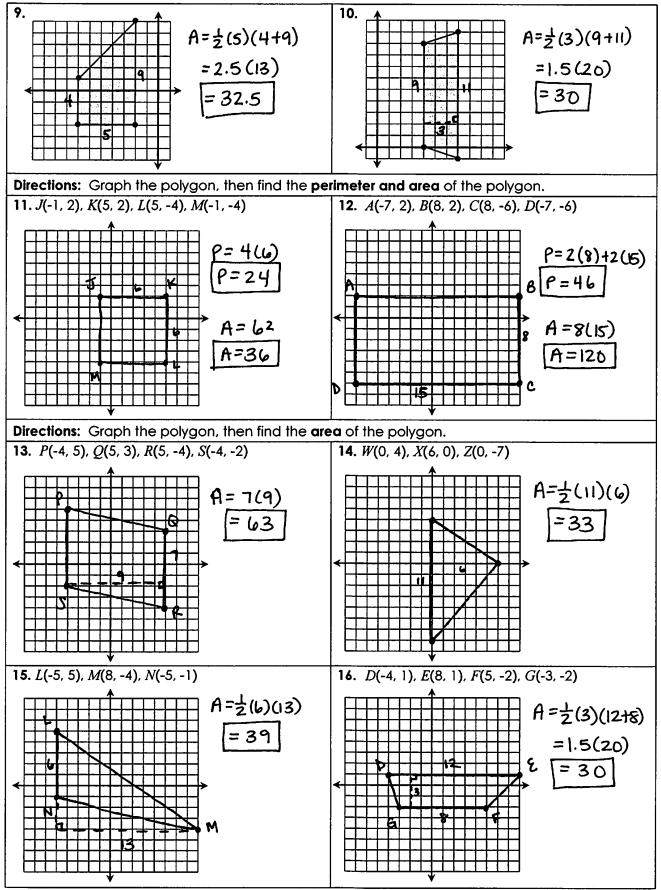


Name: \_\_\_\_\_ Unit 7: Measurement & Geometry

Date:

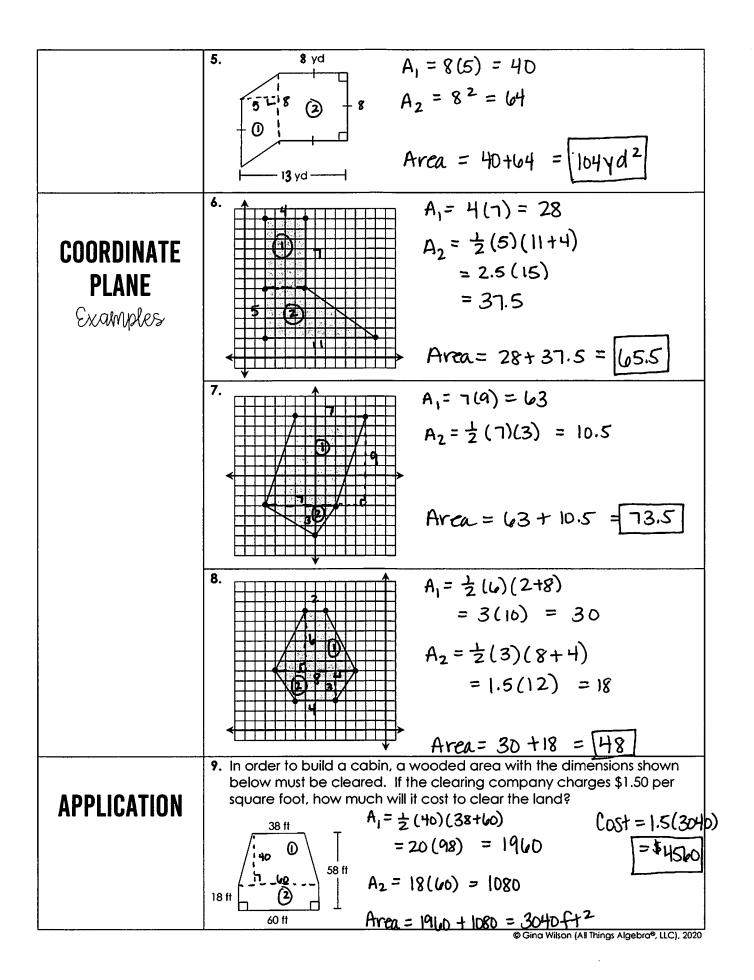
Per: \_\_\_\_\_ Homework 5: Polygons in the Coordinate Plane





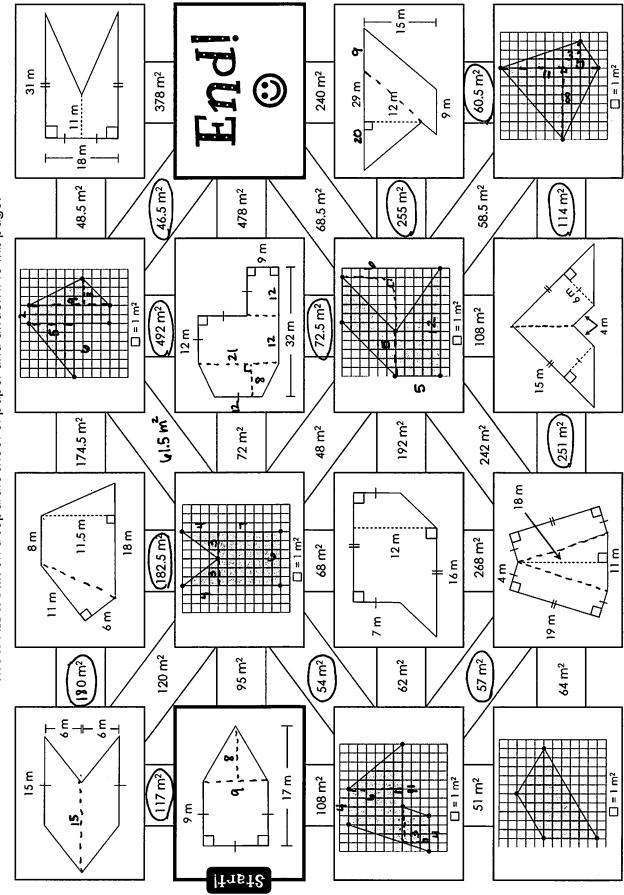
Name:		Date:
Topic:		Class:
Main Ideas/Questions	Notes/Examples	
<b>COMPOSITE</b> Figure	A figure that can Separated into region are basic plane figu	s that rectangle
	To find the area of a composite fig	
Finding	Break the figure apart into sho (squares, rectangles, parallelogram)	
AREA	Pind the area of each of thes	e shapes.
	Find the sum of these areas.	
	Find the area of each figure.	
EXAMPLES		$A_{f} = \frac{1}{2} (14)(5) = 35$ $A_{2} = 14(6) = 84$
	2.	4rea = 35 + 84 = 119f+2
		A = 38(56) = 2128
	38 (1) 19 m	$A_{z} = 19^{2} = 361$
	75 m	$Area = 2128 + 361 = 2489 m^2$
	3. A	= 12.5(5) = 102.5
	6.2 in 14 in A	$r_2 = (6.2(14)) = 86.8$
	5 in 12.5 in Ar	$e_a = 62.5 + 86.8 = 149.3 \text{ in}^2$
	4. $A_1 = \frac{1}{2}$	$\frac{1}{2}(18)(10) = 90$
	$A_2 = \frac{18 \text{ cm}}{32 \text{ cm}}$	$\frac{1}{2}(22)(18+30)$ 11(48) = 528
	<u>1 / 7 30 cm</u> Area	$a = 90 + 528 = 618 \text{ cm}^2$

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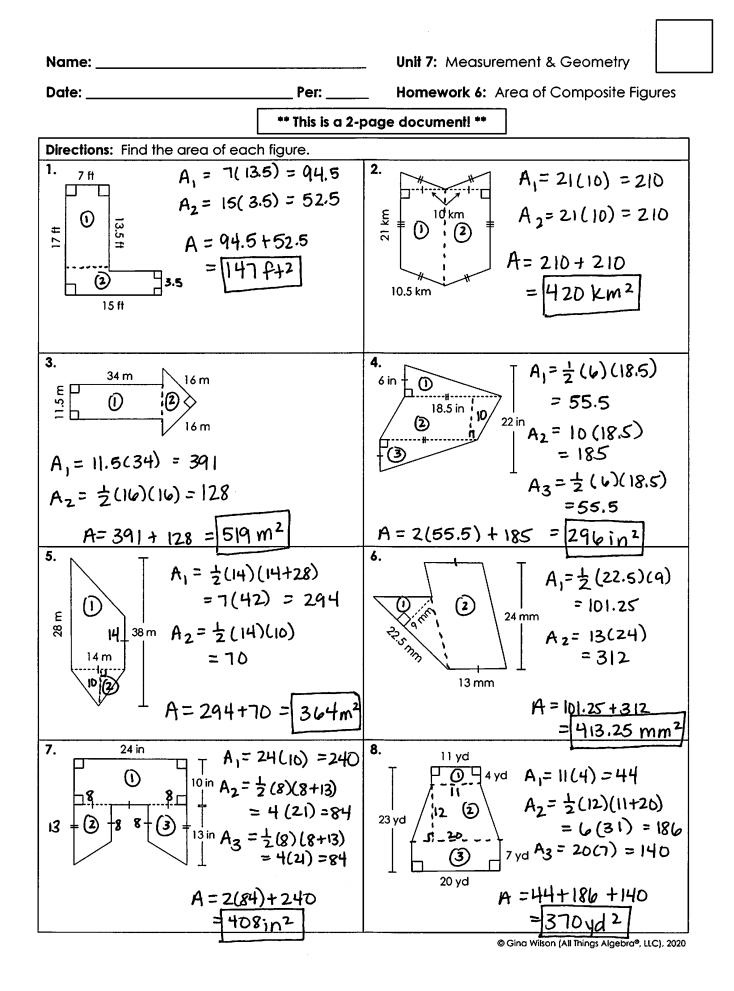


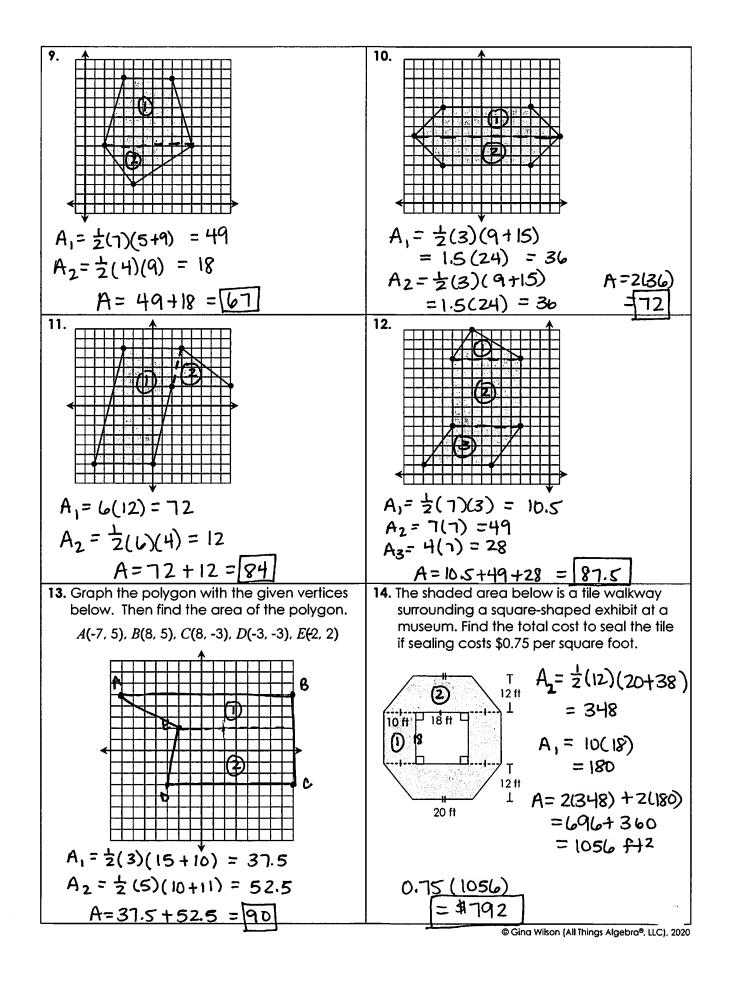
Area of Composite Figures Maze

Directions: Find the area of each figure Use your solutions to navigate through the maze. SHOW ALL WORK on a separate sheet of paper and attach it to this page!



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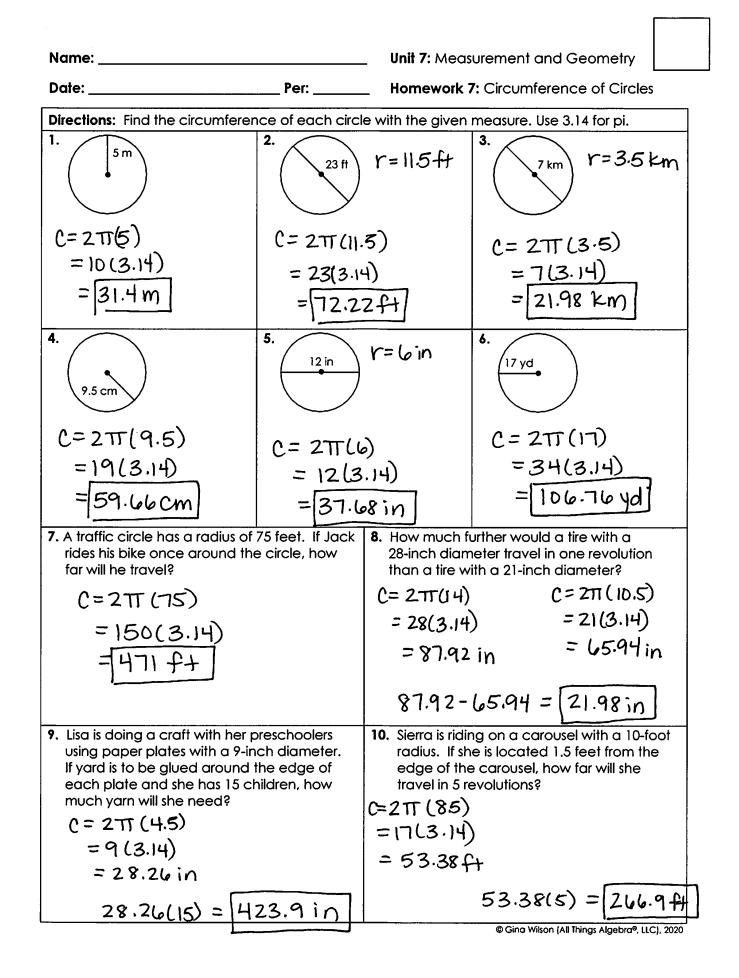




Name:		Date:
Торіс:	Class:	
Main Ideas/Questions	Notes/Examples	
CIRCLE	A set of points cqui given point, called the	
PARTS of a circle	Center: The given point in which all points are the same distance from. Radius, r: The distance from the center to any point on the circle.	
	Diameter, d: The distance across the Circle, through the center. The diameter is twice the radius. (d =: 1. A DVD has a radius of 60 millimeters. What is its diameter? 26 inches. What is its radius?	
	120 mm	13 in
	3. Find the radius of a campaign button with a diameter of 2 1/4	4. A quarter has a radius of 0.48 inches. What is its diameter?
	inches.	0.94 in
CIRCUMFERENCE		$C = 2\pi r$
of a circle	• $\pi$ (read pi) is the <u>ratio</u> of the <u>Circum fevence</u> of a circle to its <u>diameter</u> .	
	• This ratio remains constant for <u><math>all circlrs</math>! • <math>\pi</math> is approximately <u>3.14</u> or <u><math>22/7</math></u>.</u>	
	Find the circumference of the circle with the given measurement.	
	5. radius = 4 inches	6. diameter = 18 feet 4r = 9 feet
	C=2TT(4)	
	= 8(3.14) = 25.12 in	C = 2TT(9) = 18(3.14) = (56.52 ft)
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	Find the circumference of each circle. Use 3.14 for pi.		
EXAMPLES	7. • 7 m	8. 16 yd	
	$C = 2\pi(7)$	C = 2TT(16)	
	= 14(3.14) = $[43.96 m]$	= 32(3.14) = 100.48 vd	
	9. 6 km 6 km	10. 25 mm r=12.5 mm	
	C = 2TT(3) = $(3.14)$	C = 2TT(12.5) = 25(3.14)	
	=[18.84  km]	= 78.5  mm	
	5.5 cm	48 in	
	$C = 2\pi(5.5)$	C = 2TT (24)	
	= 11(3.14) = 34.54 cm	= 48(3.14) = $[150.72 in]$	
APPLICATIONS	13. A circular garden has a radius of 8 feet. If a landscaper is edging the garden, how many feet will he edge?	14. A Ferris wheel has a diameter of 280 feet. How many feet will a passenger on the wheel travel in one revolution? $r = 140 \text{ ft}$	
	$C = 2\pi (8)$ = 16(3.14) = 50.24 f+	C = 2TT (140) = 280(3.14) = 879.2 ft	
	<ul> <li>15. A circular path with a diameter of 0.5 miles surrounds a lake.</li> <li>If Carrie ran around the path 4 times, how far did she run?</li> </ul>	16. The minute hand on a clock is 4.5 inches long. How far will the hand travel in one hour? C = 2 TT (4.5)	
	r = 0.25  mi c = 2 TT(0.25) = 0.5(3.14) = 1.57	=9(3.14) = $28.26$ in	
	4(1.57)=(6.28 mi	© Gina Wilson (All Things Algebra®, LLC), 2020	



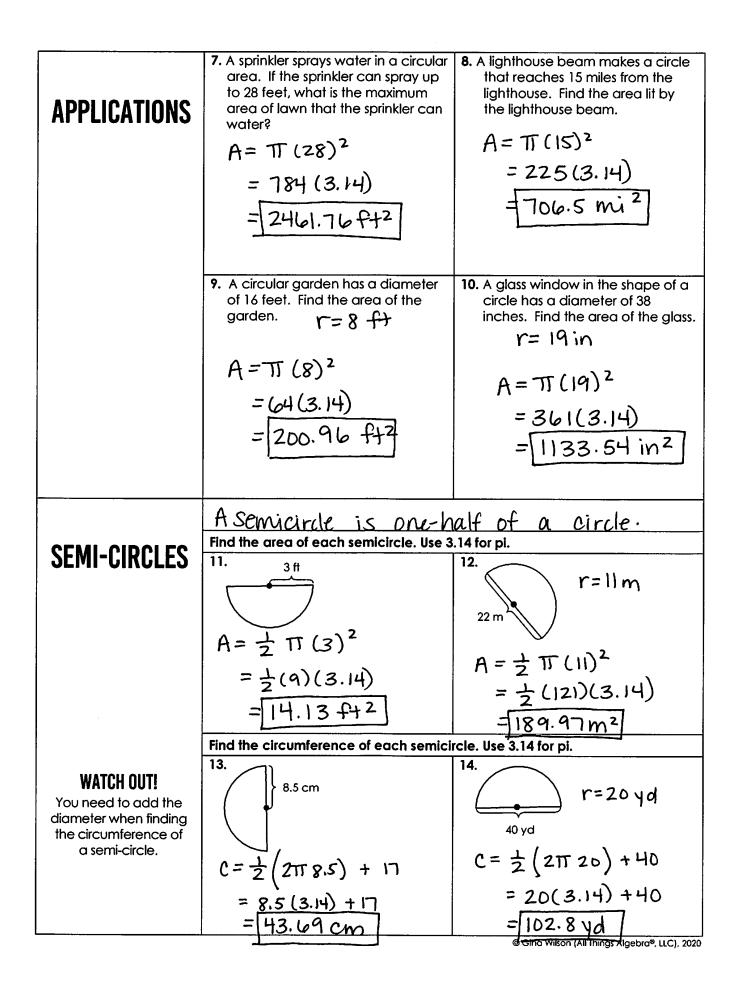
Name:		Date:
Торіс:		Class:
Main Ideas/Questions	Notes/Examples	
AREA	The amount of space Occupied by a circl Find the area of each circle. Use 3.1	A= 11r-
of a circle	1. 2  cm $A = TT (2)^2$ = 4(3.14) $= 12.50 \text{ cm}^2$	2. $A = TT(9)^{2}$ = 81(3.14) $= 254.34 \text{ yd}^{2}$
	3. 26  m $r = 13  mA = TT(13)^2= 169(3.14)= 530.66 \text{ m}^2$	4. $A = T(T)^{2}$ = 49(3.14) $= 153.86 \text{ f}^{2}$
	5. $f = TT(5)^2$ = 25(3.14) $= 78.5 in^2$	6. 48 mi r = 24 mi $A = TT(24)^2$ = 576 (3.14) $= [1808.64 mi^2]$

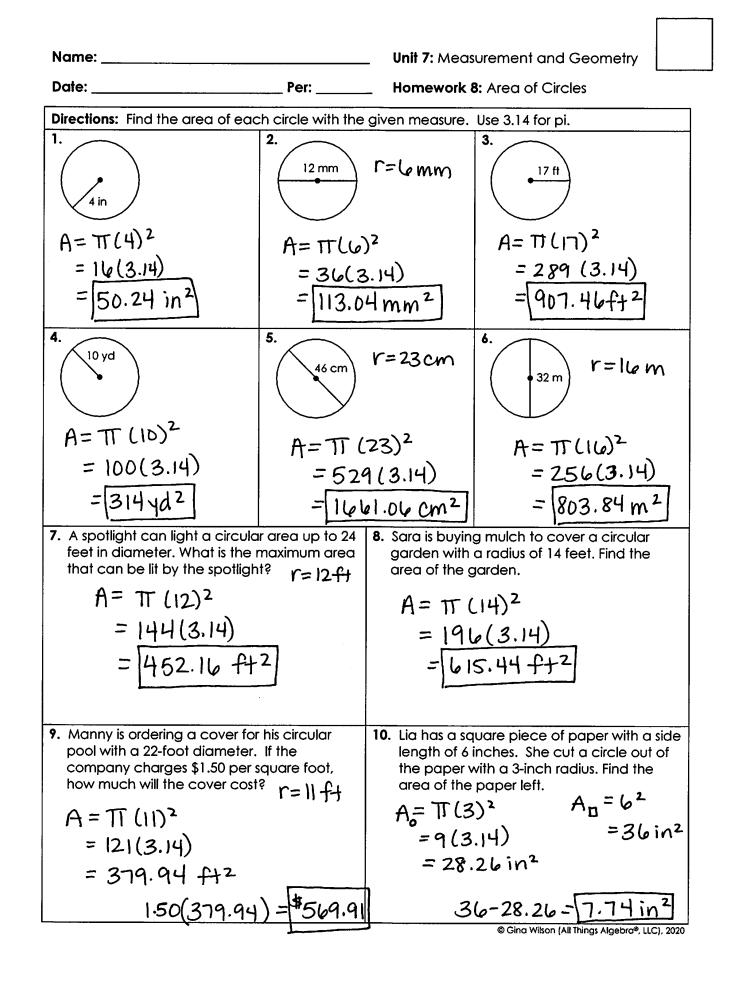
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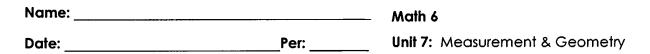
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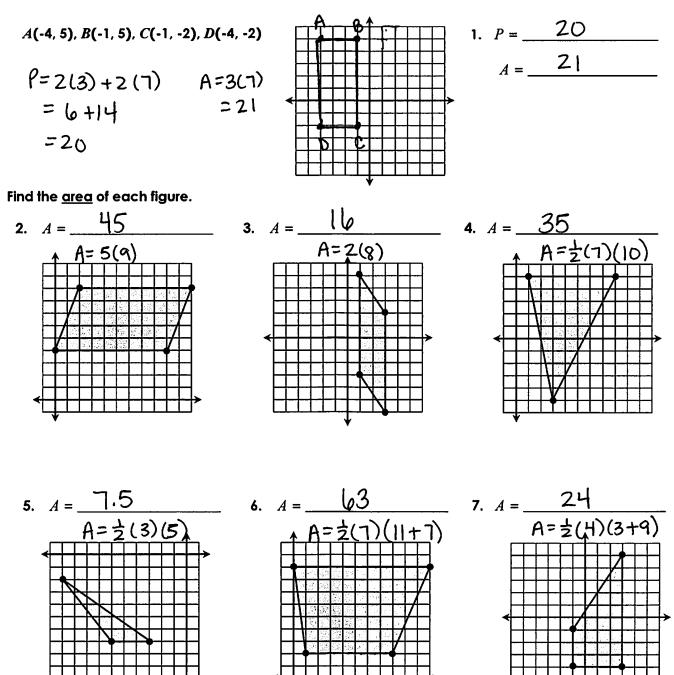




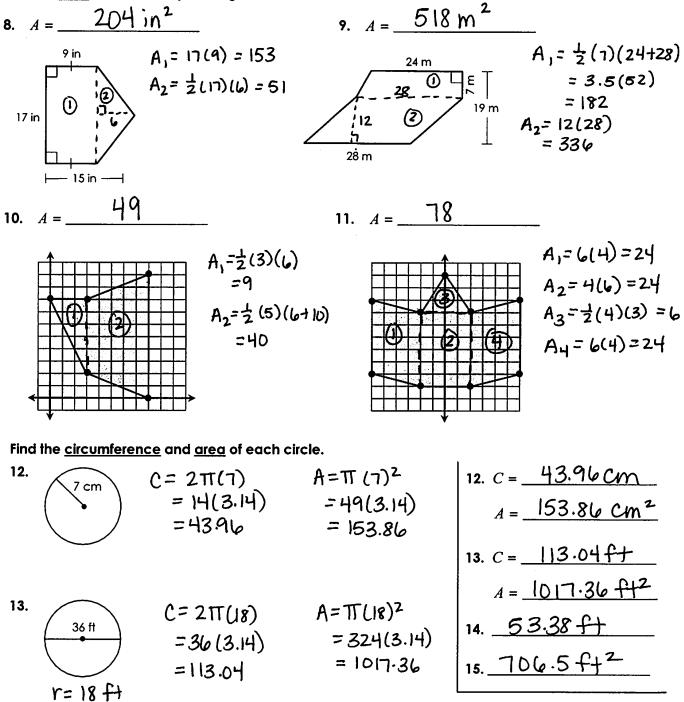


Quiz 7-2: Polygons on the Coordinate Plane, Composite Figures, & Circles

1. Graph the figure with the given vertices, then find the **perimeter** and **area** of the figure.



Find the <u>area</u> of each composite figure.

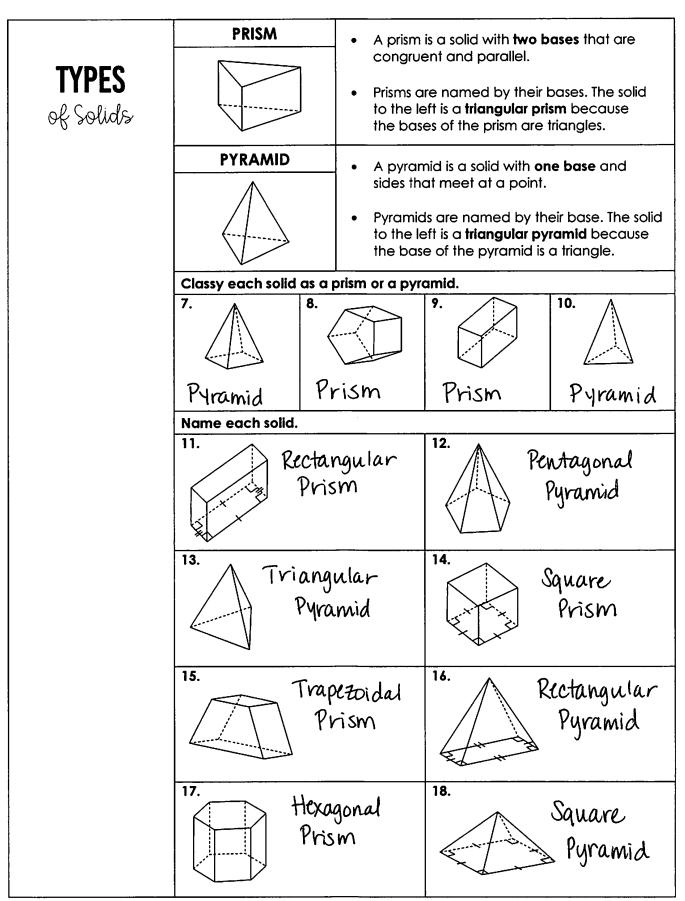


14. A trampoline has a 17-foot diameter. Find the length of the net that surrounds the trampoline. r = 8.5 ft

**15.** A circular tarp has a radius of 15 feet. How many square feet of material was used to create the tarp?

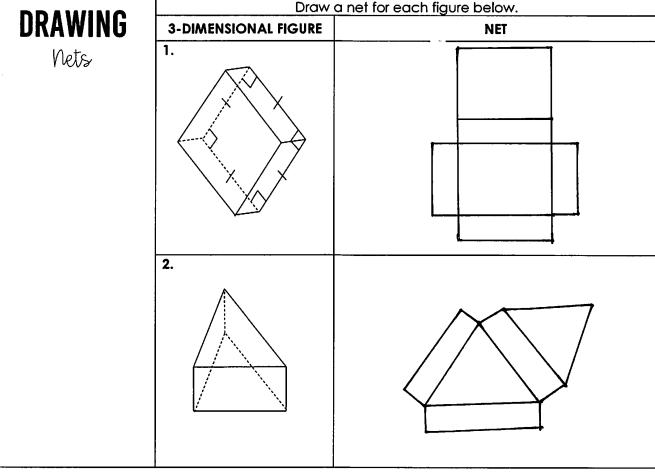
$$A = TT (15)^{2}$$
  
= 225 (3.)4)  
= 706.5  
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Name:			Date:			
Topic:			Class:			
Main Ideas/Questions	Notes/Examples					
What is a <b>SOLID?</b>	A three-dimensional figure that encloses a space. Parts of three-dimensional figures: • A face is a "flat" surface. • An edge is a line segment connecting two faces. • A Vertex is a point connecting three or more edges. Label the parts of the figure:					
	Find the number of faces	edges, a Faces:	nd vertices of each solid.	Vertex Faces:		
		Edges:   2 Vertices:		Edges: 9 Vertices:		
	3.	Faces: Edges: 2 Vertices: 7	4.	Faces: 5 Edges: 8 Vertices: 5		
	5.	Faces: 1D Edges: 2.4 Vertices: 16	6.	Faces: L Edges: C Vertices: L		

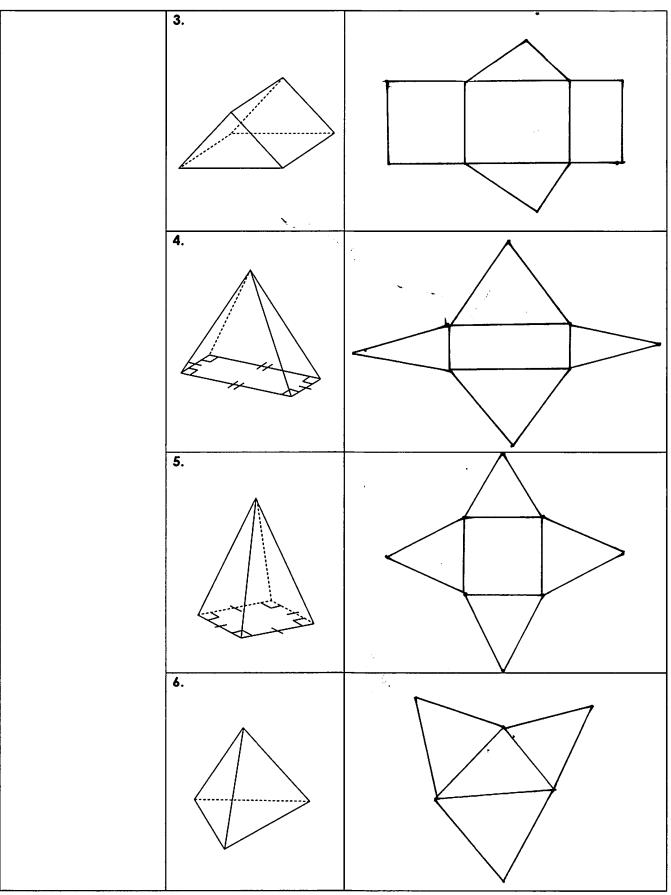


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Name:			Date:			
Topic:			Class:			
Main Ideas/Questions	Notes/Examples					
	When a three-din onto a flat surfac					
NFTS	3-DIMENSIONAL FIGURE		NET			
NETS of 3d Figures				top		
				side		
			side	bottom	side	
				side		
	There are many ways base first, then draw th					



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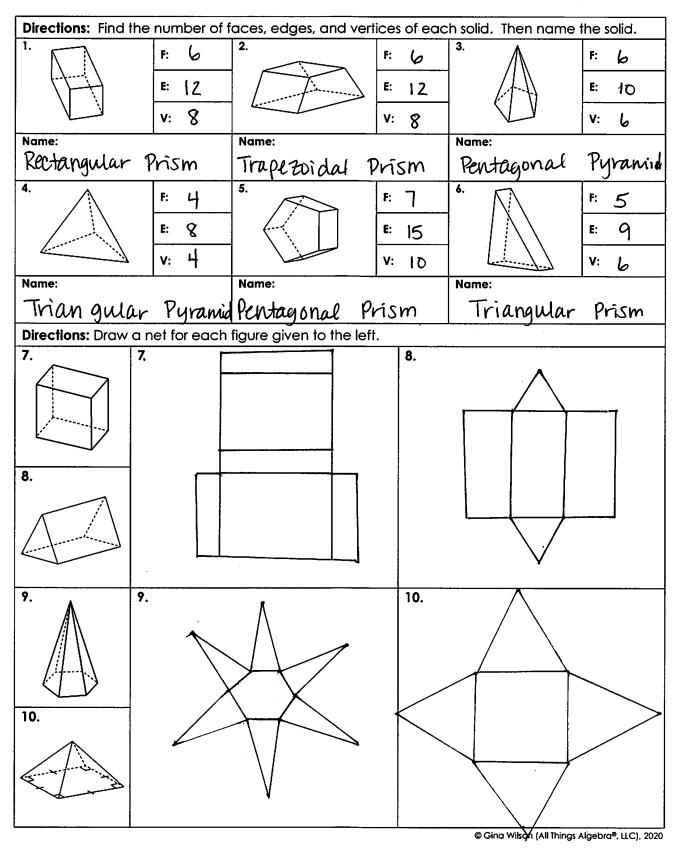
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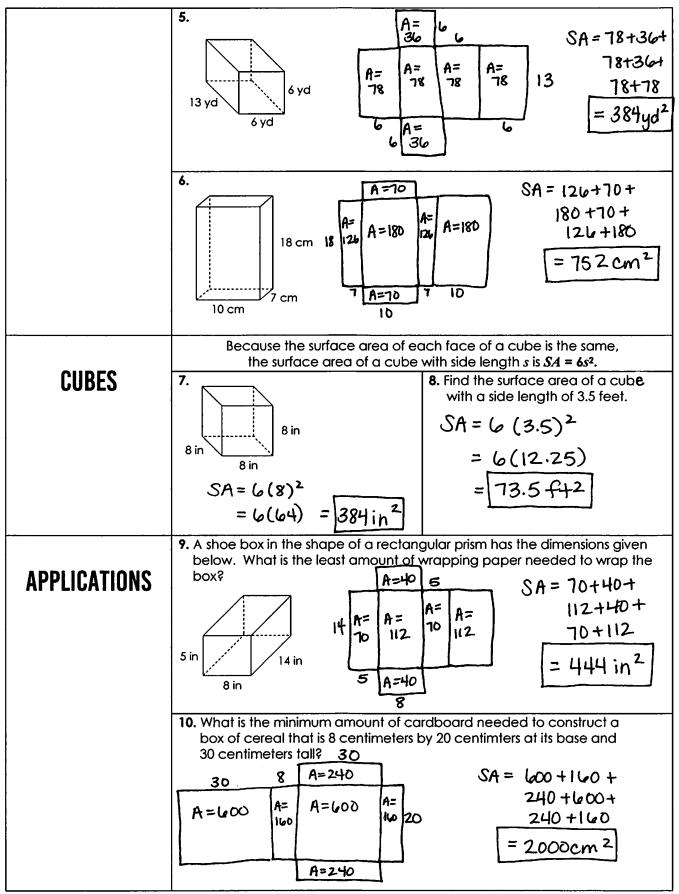
Unit 7: Measurement & Geometry

Date: \_\_

Homework 9: Three-Dimensional Figures



Name:	Date:			
Торіс:	Class:			
Main Ideas/Questions	Notes/Examples			
	The surface area is the sum of the			
SURFACE AREA	areas of the bases and lateral faces.			
	What can we use to find surface area? Nets!			
	Label the dimensions on the given net, then find the surface area of the solid.			
SURFACE AREA of Rectangular Prisms	1. A = 48 A = 48 A = 48 A = 48 A = 48 A = 48 A = 72 A = 24 A = 288 Cm	.+- +		
	2. 10 10 in 16 in 16 in 10 in 16 in 10 in 16 in 10 in 16 in 10 in 16 in 10 in 16 in 10 in	+		
	3. 3 $A=15$ SA = 33 + 15 + 55 + 55 + 11 $A = A = 33 + 55 + 55 + 55 + 11 + 55 + 11 + 55 + 15 + 33 + 55 = 206 m^2$ $3 A = 5 - 3 - 5 = 206 m^2$			
	Draw and label a net for the given solid, then find its surface area.			
DRAWING NETS	4. 7 ft $7 ft$ $7 ft$ $7 ft$ $7 ft$ $12 ft$ $7 ft$ $12 ft$ $7 ft$ $12 ft$ $7 ft$ $7 ft$ $7 ft$ $12 ft$ $7 ft$ $7 ft$ $12 ft$ $7 ft$ $12 ft$ $12 ft$ $12 ft$ $7 ft$ $12 ft$	ł		



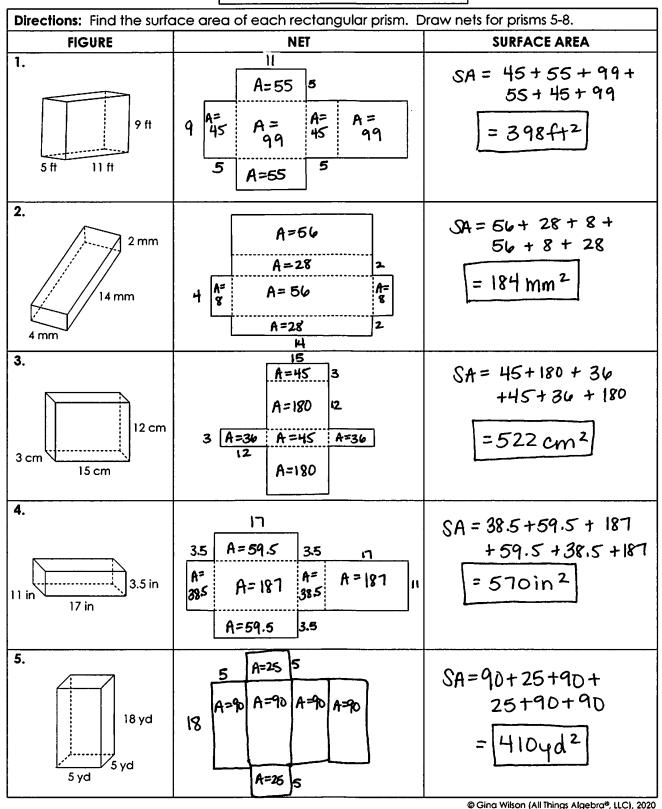
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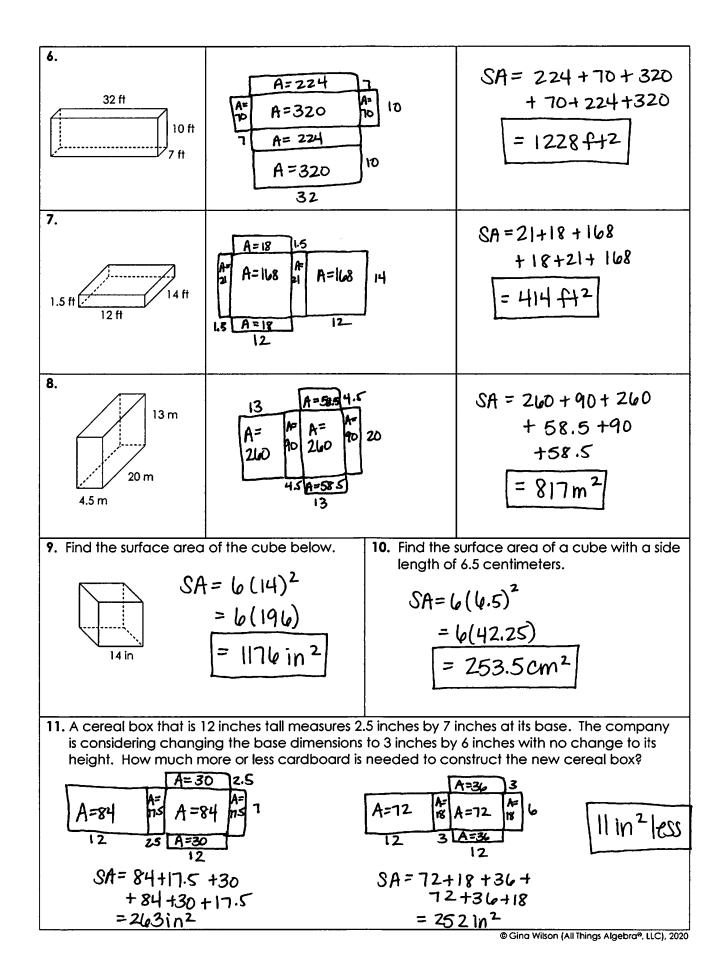


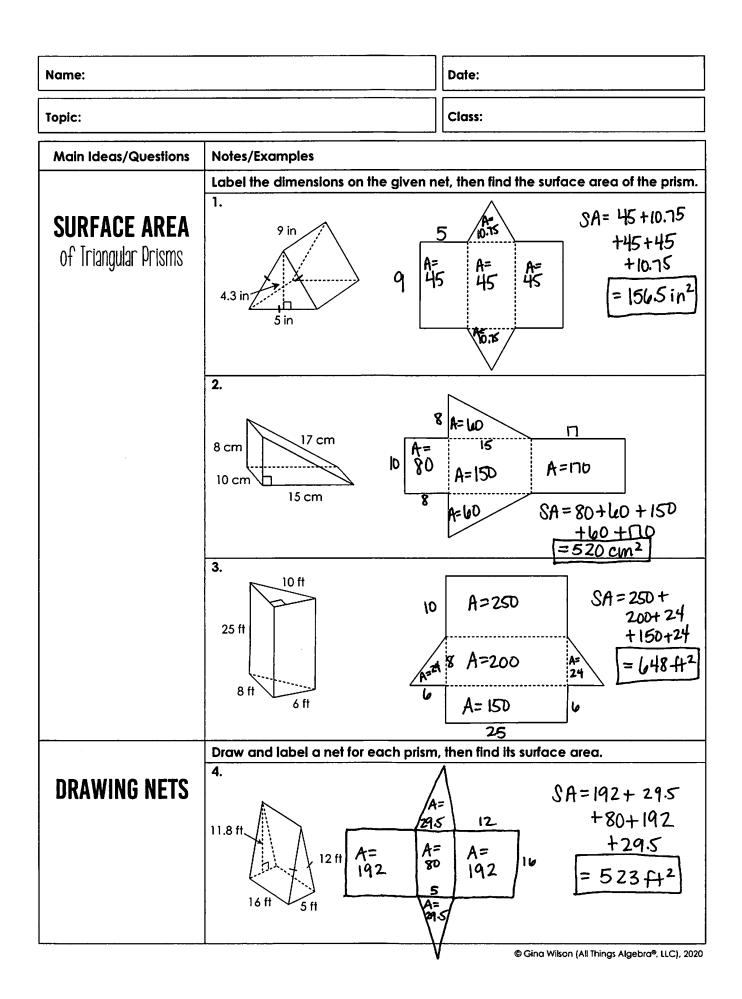
Date:

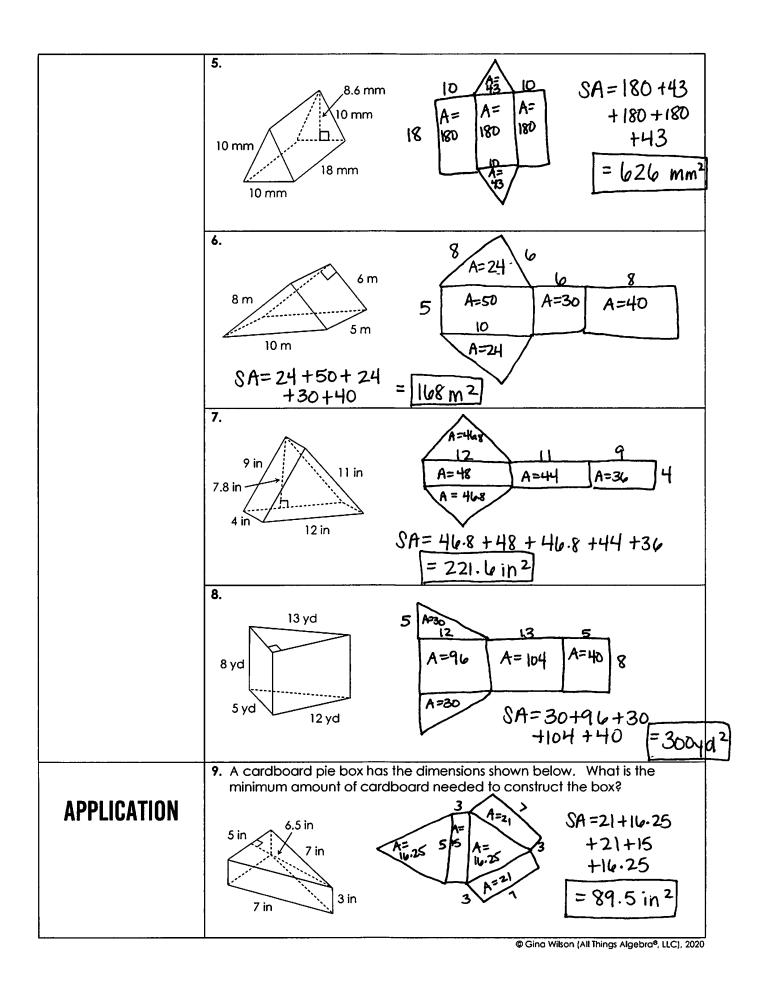
Per: \_\_\_\_\_ Homework 10: SA of Rectangular Prisms

### \*\* This is a 2-page document! \*\*





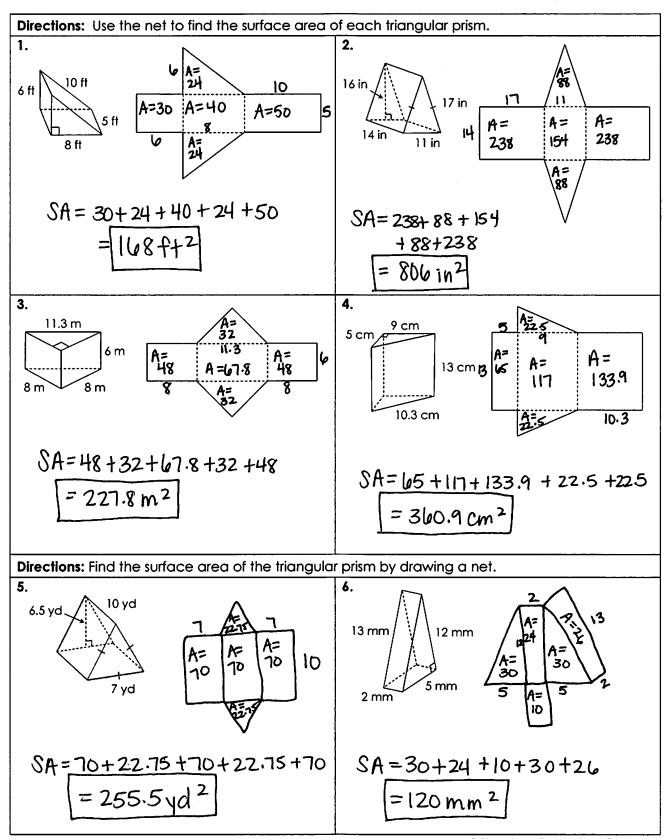


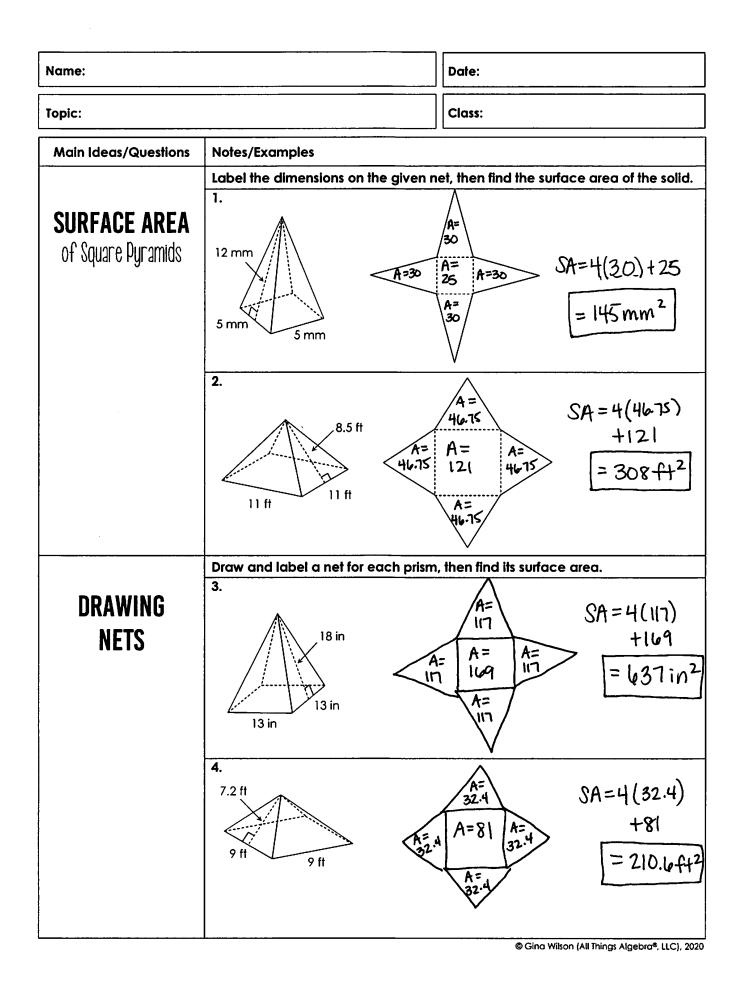


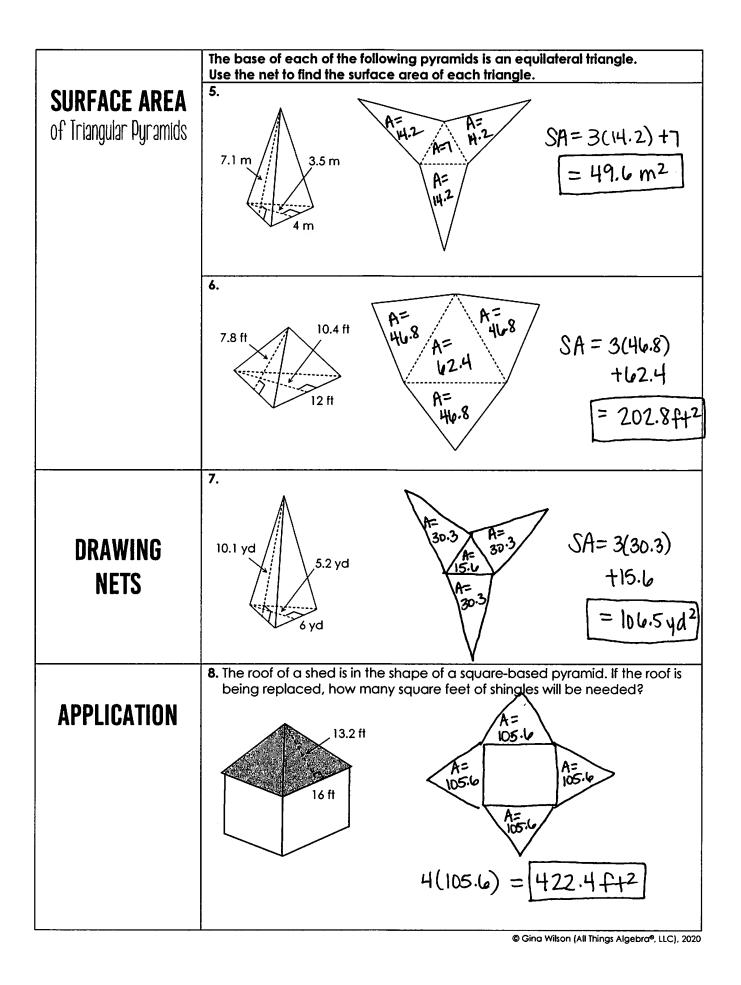


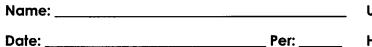
Unit 7: Measurement & Geometry

Homework 11: SA of Triangular Prisms

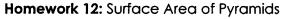


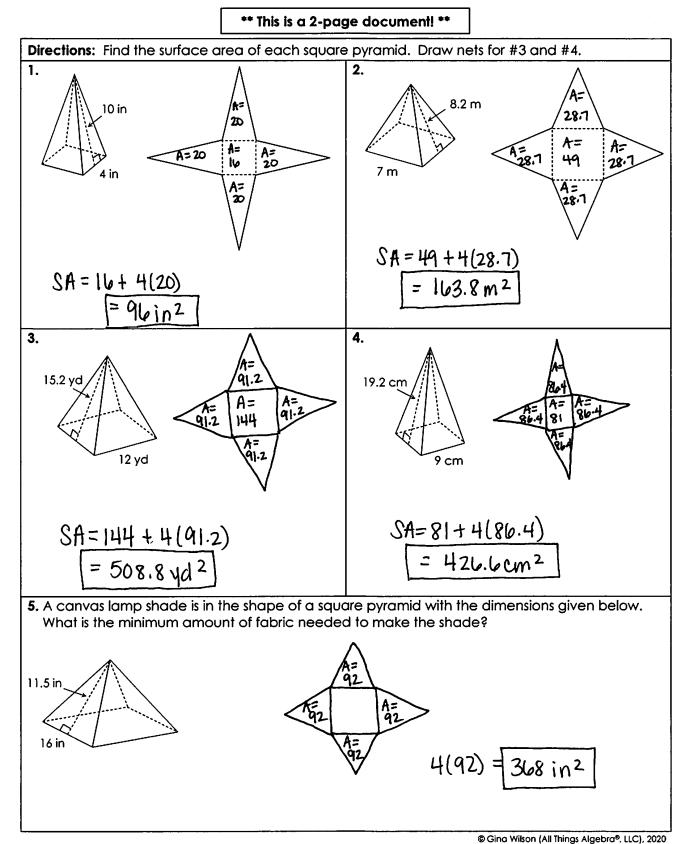


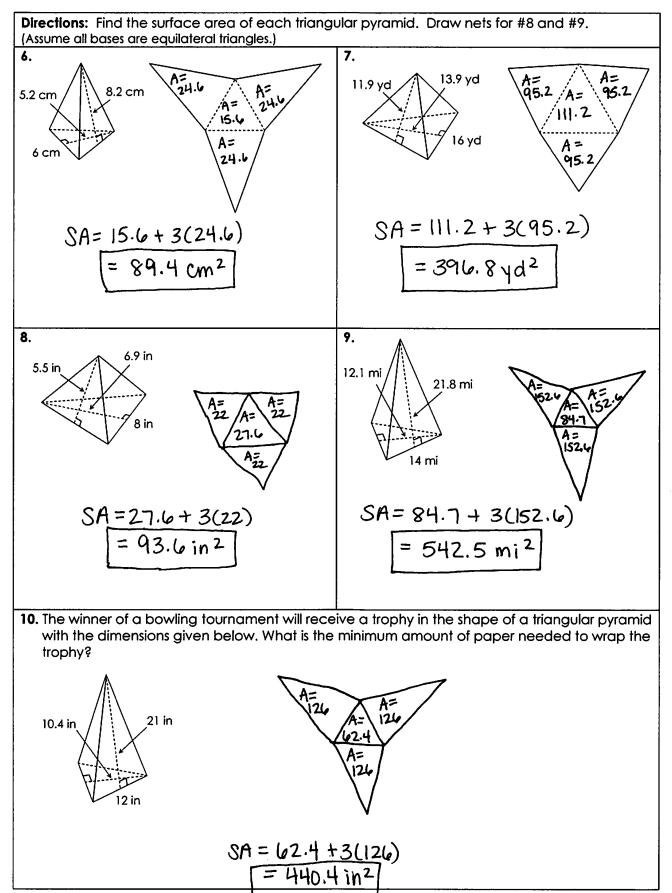




Unit 7: Measurement & Geometry



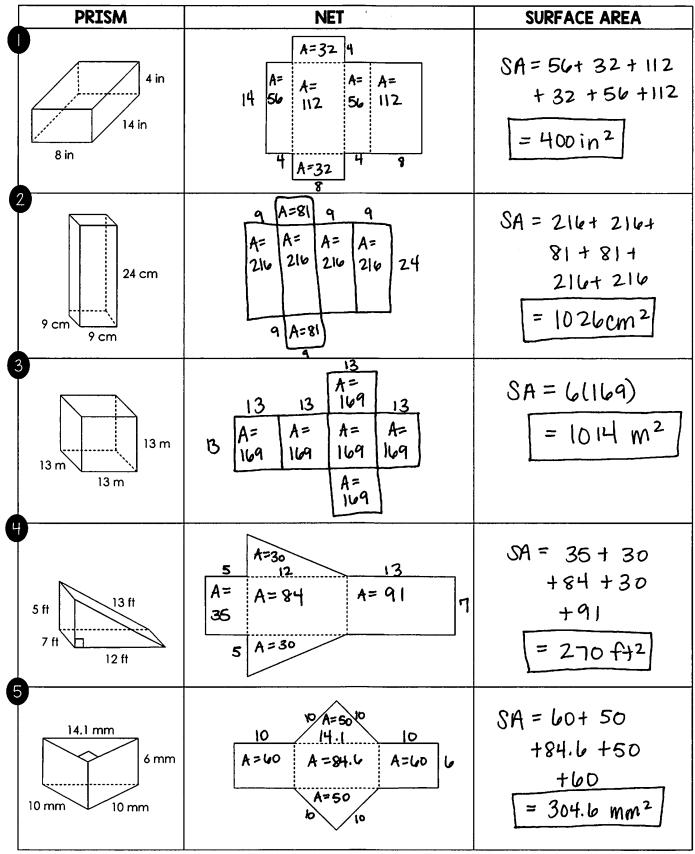


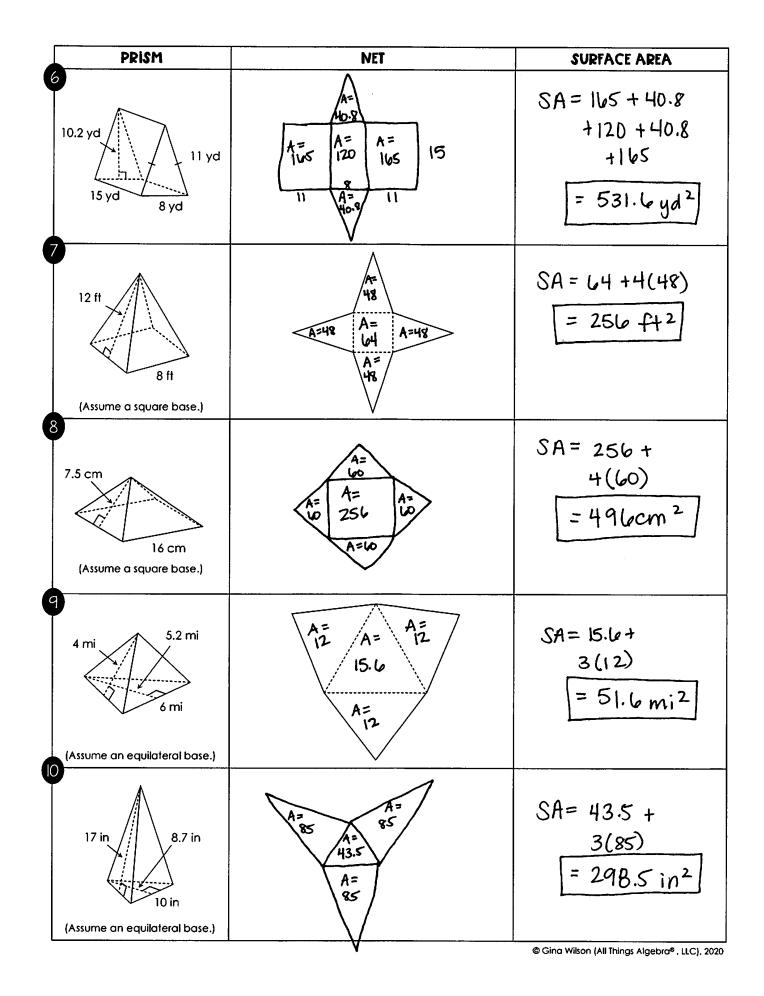


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# 🗢 🗢 🗢 SURFACE AREA REVIEW 👄 🍩 🖨

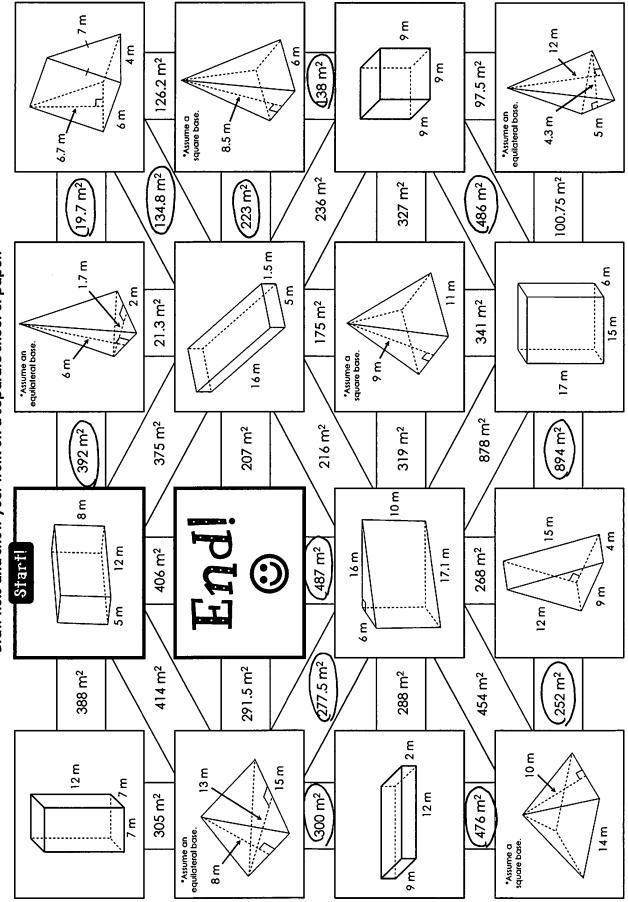
Directions: Find the surface area of each prism or pyramid. Draw a net where one is not provided.

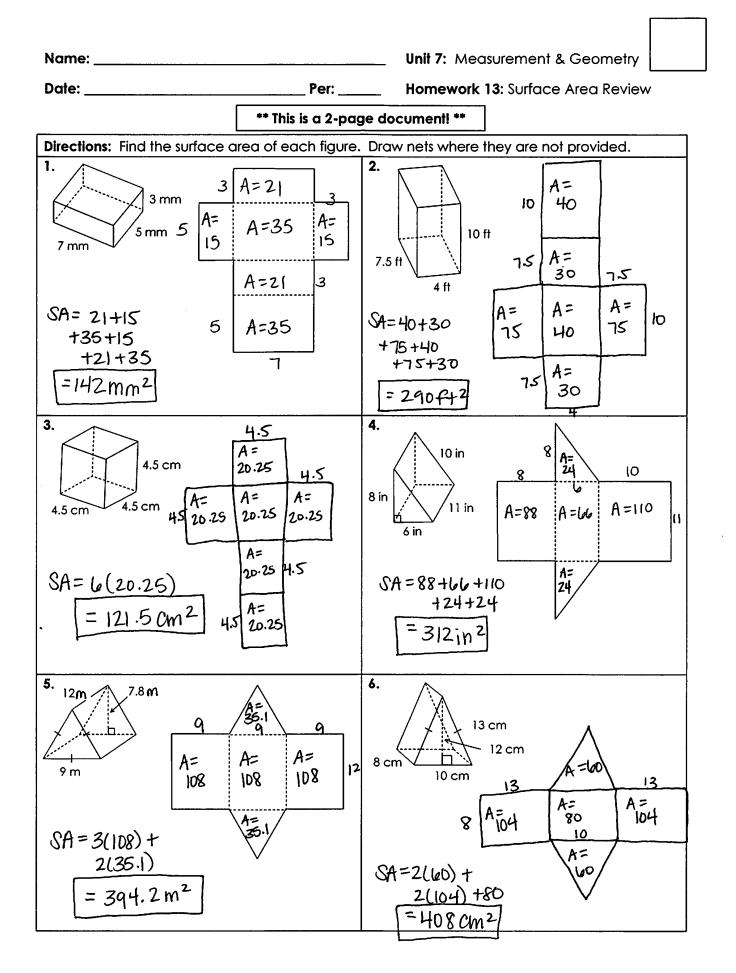




Surface Area of Prisms & Pyramids Maze!

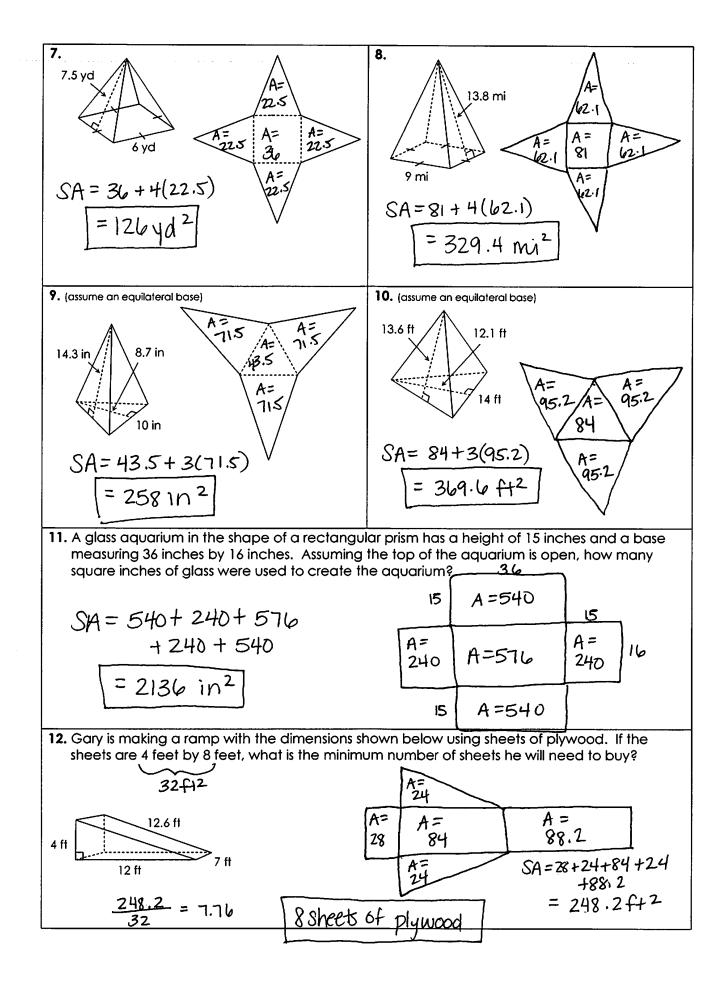
**Directions:** Find the surface area of each prism or pyramid. Use your solutions to navigate through the maze. **Draw nets and show your work on a separate sheet of paper.** 

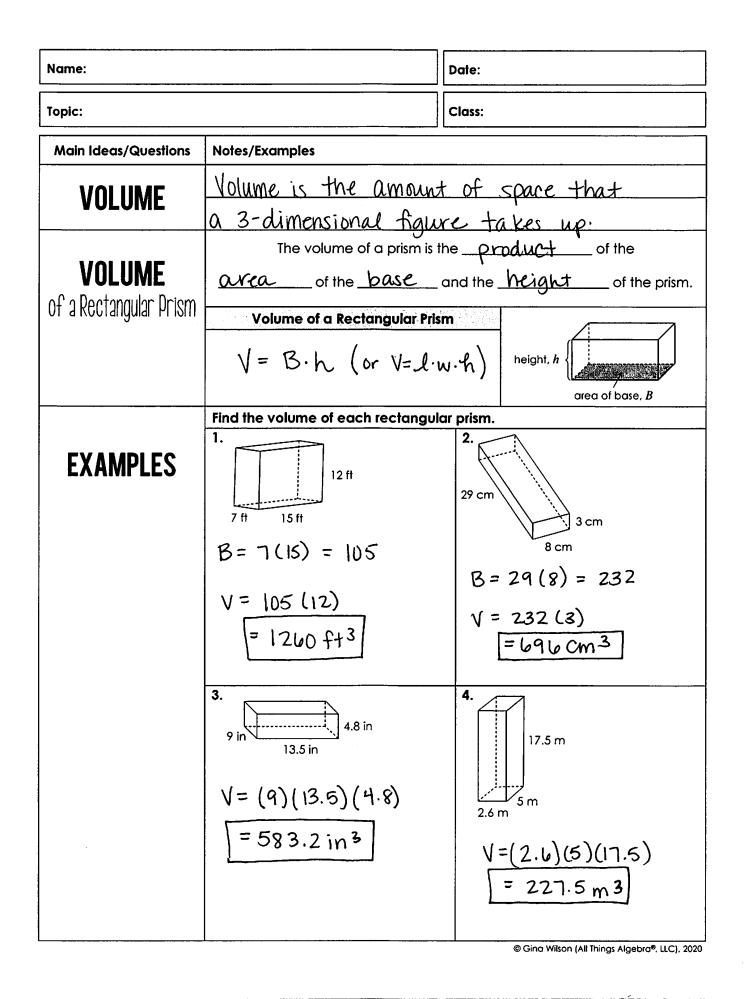


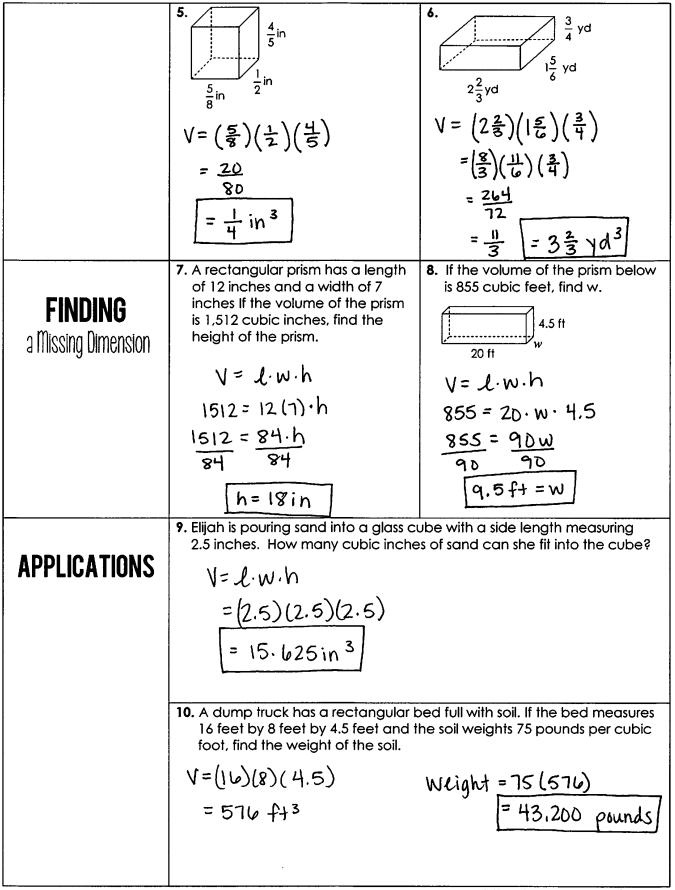


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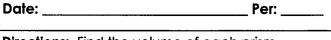




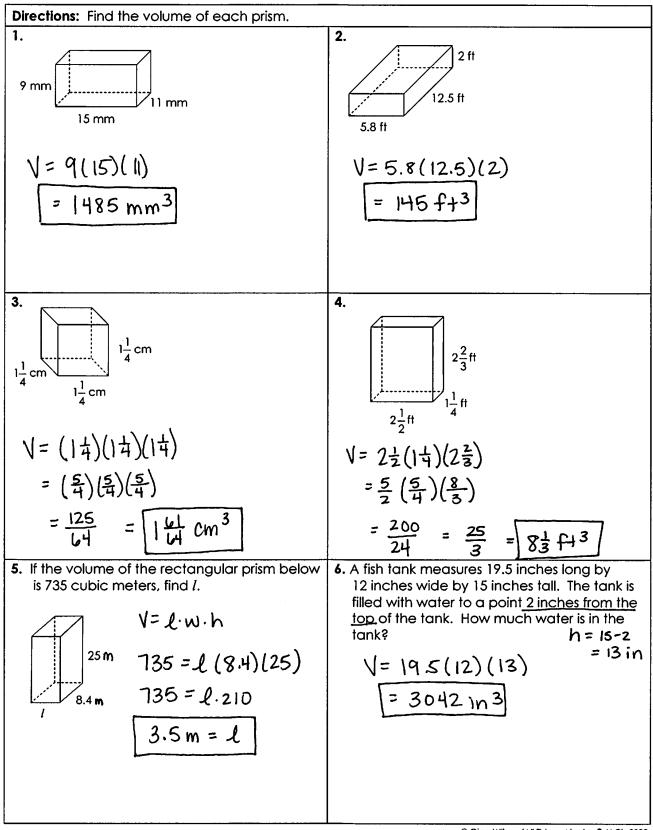




Unit 7: Measurement & Geometry



Homework 14: Volume of Rectangular Prisms

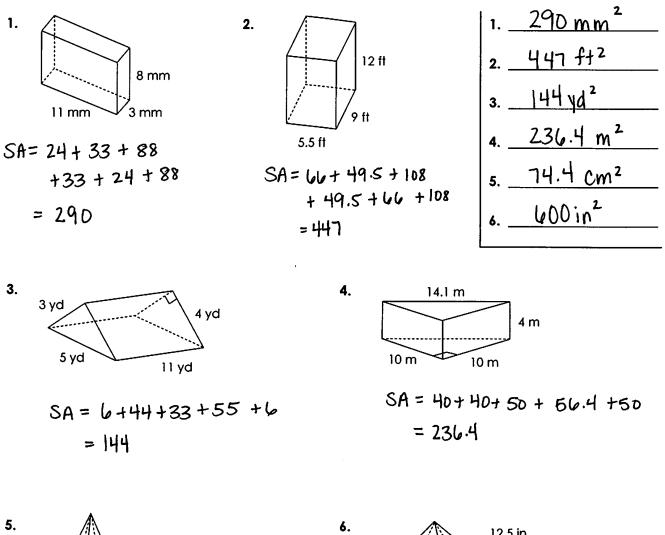


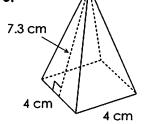
 Name:
 Math 6

 Date:
 \_\_\_\_\_Per:
 Unit 7: Measurement & Geometry

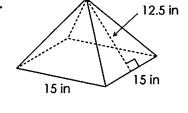
#### Quiz 7-3: Surface Area and Volume

For questions 1-8: Using the nets on the separate sheet of paper, find the surface area of each figure. Draw nets where they are not provided.

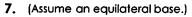




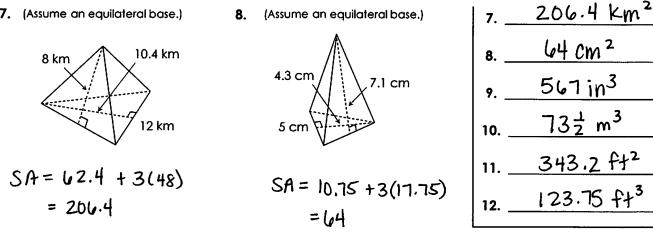
SA= 16+4(14.6) = 74.4



$$SA = 225 + 4(93.75)$$
  
= 600

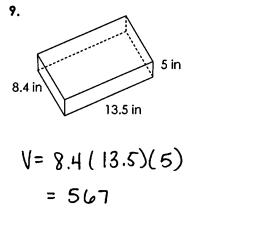


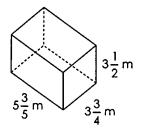
8. (Assume an equilateral base.)



10.

For questions 9-10: Find the volume of each rectangular prism.





$$V = (5\frac{3}{5})(3\frac{3}{4})(3\frac{1}{2})$$
  
=  $(\frac{28}{5})(\frac{15}{4})(\frac{1}{2})$   
=  $\frac{2940}{40} = \frac{141}{2} = -13\frac{1}{2}$ 

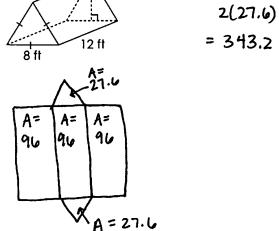
For questions 11-12: Read and solve each problem.

SA= 3(96) +

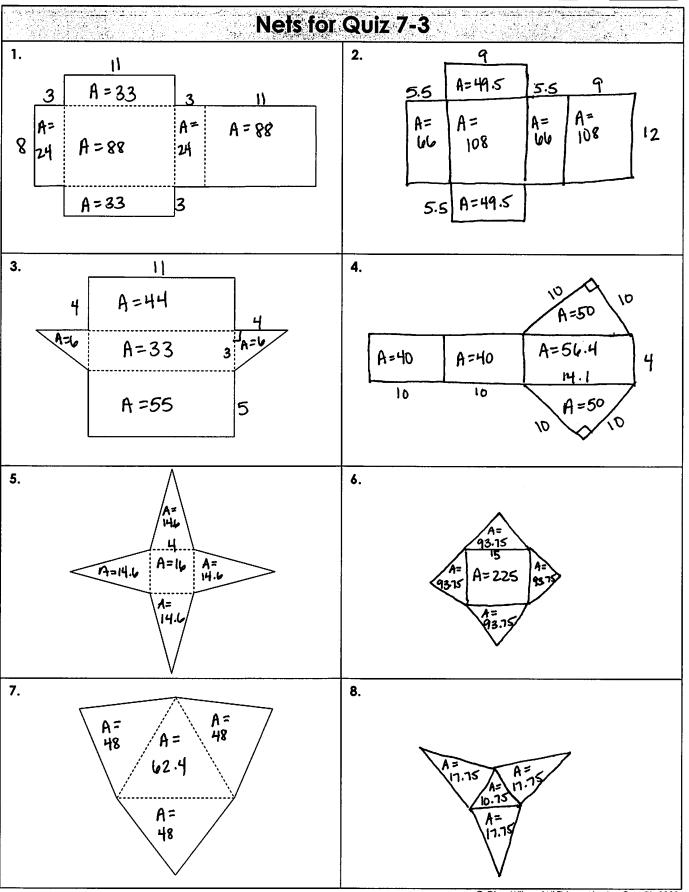
11. A tent in the shape of a triangular prism has the dimensions given below. What is the minimum amount of fabric needed to make the tent. (Assume this includes the floor.)

6.9 ft

12. A sandbox in the shape of a rectangular prism measures 11 feet by 7.5 feet by 1.5 feet. Find the maximum amount of sand the box can hold.







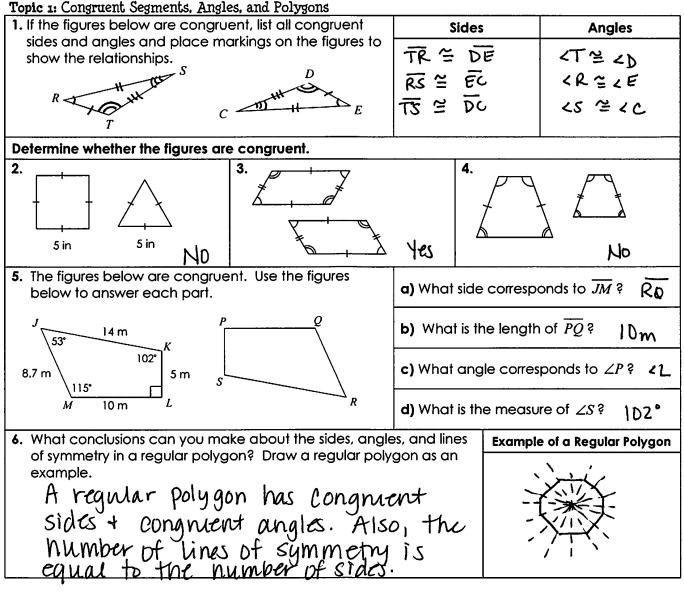
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## Unit 7 Test Study Guide (Measurement & Geometry)

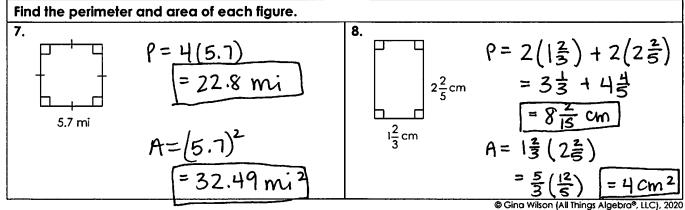
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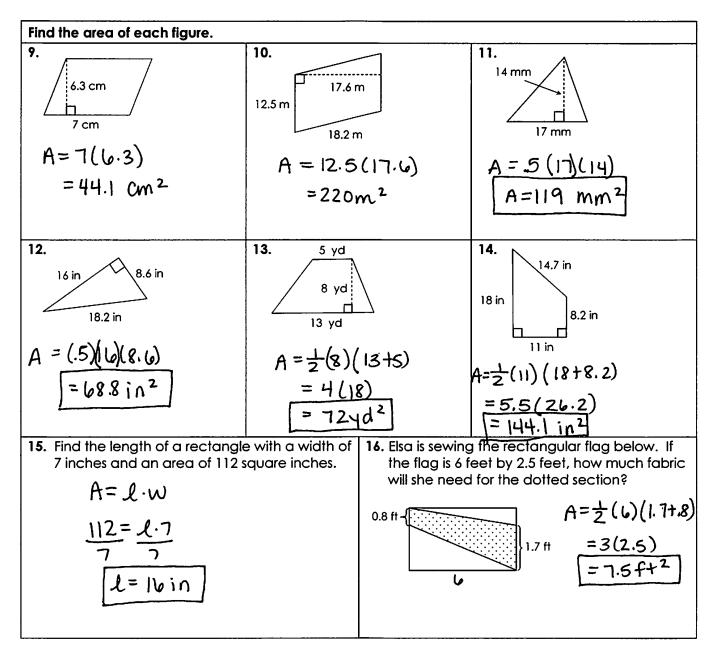
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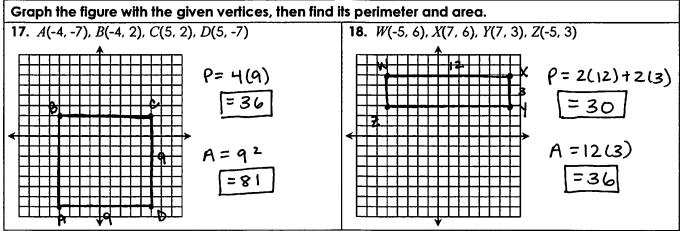


Topic 2: Perimeter and Area of Rectangles, Parallelograms, Triangles, and Trapezoids

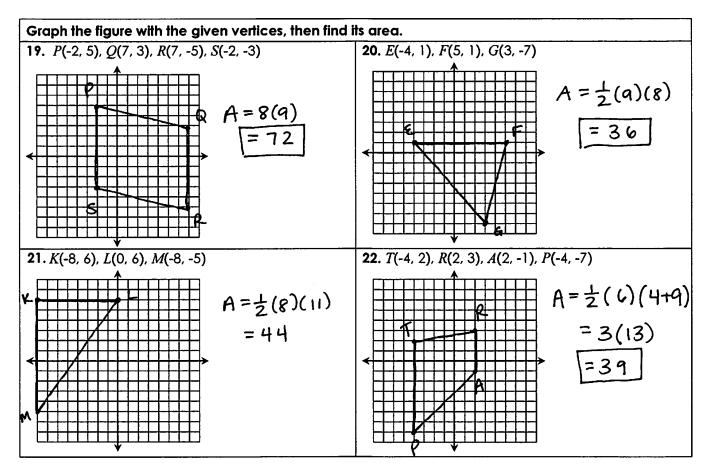




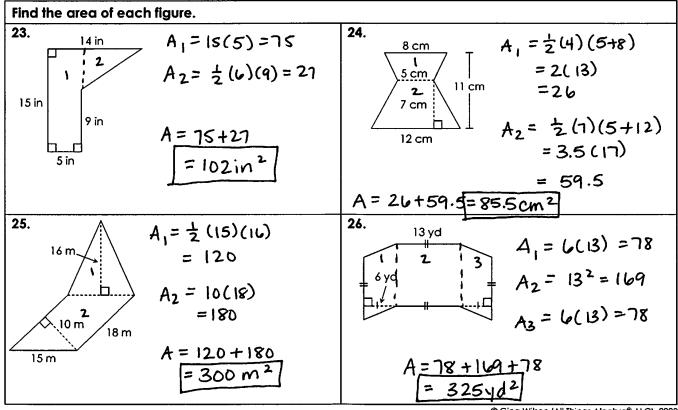
#### Topic 3: Graphing Polygons in the Coordinate Plane



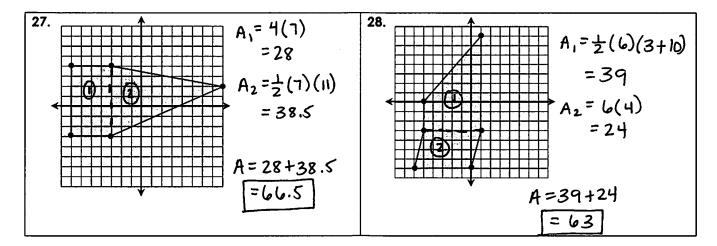
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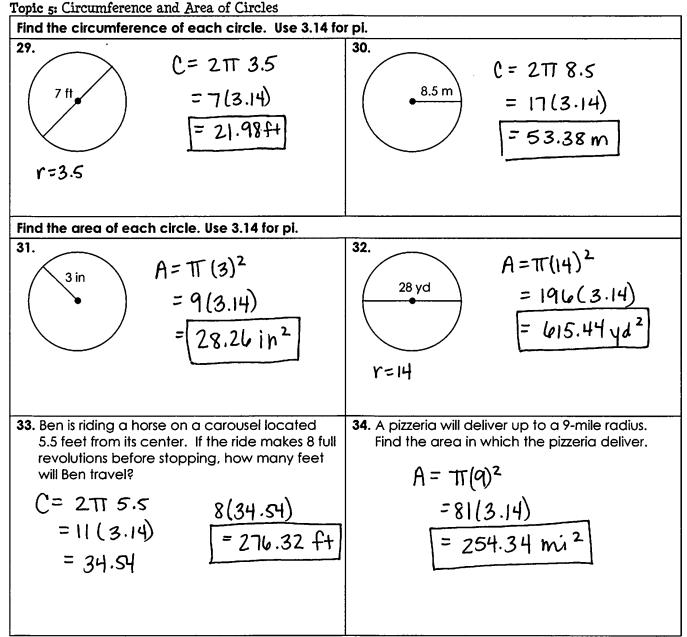


Topic 4: Area of Composite Figures

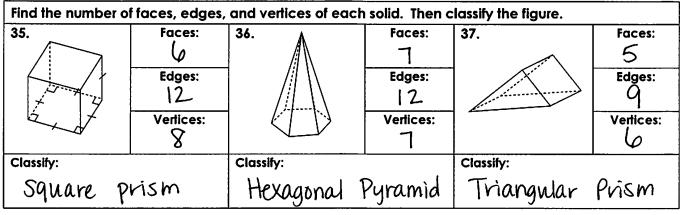


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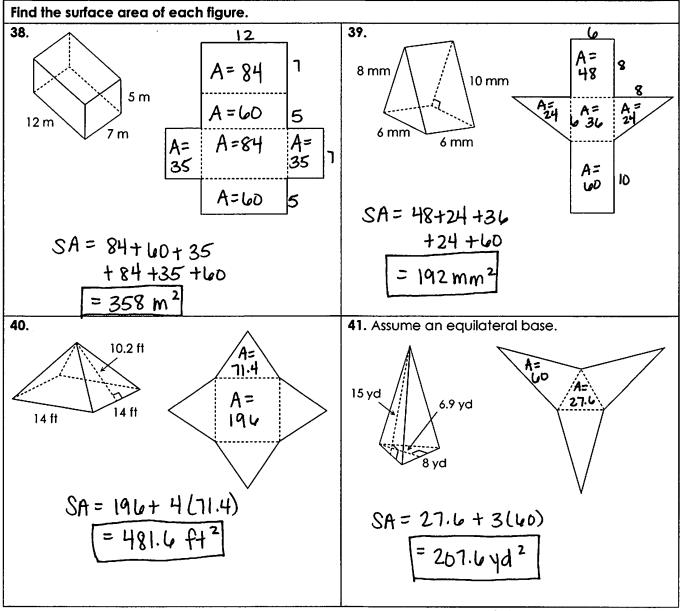


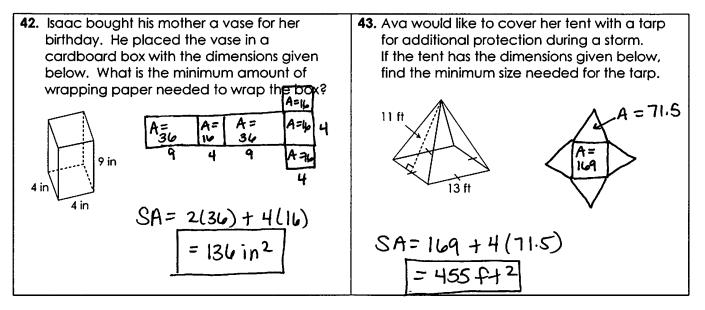


Topic 6: Classifying Three-Dimensional Figures

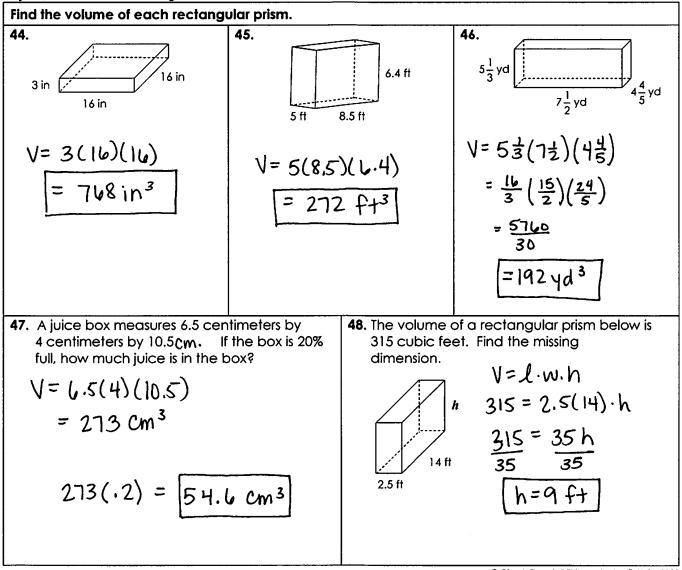


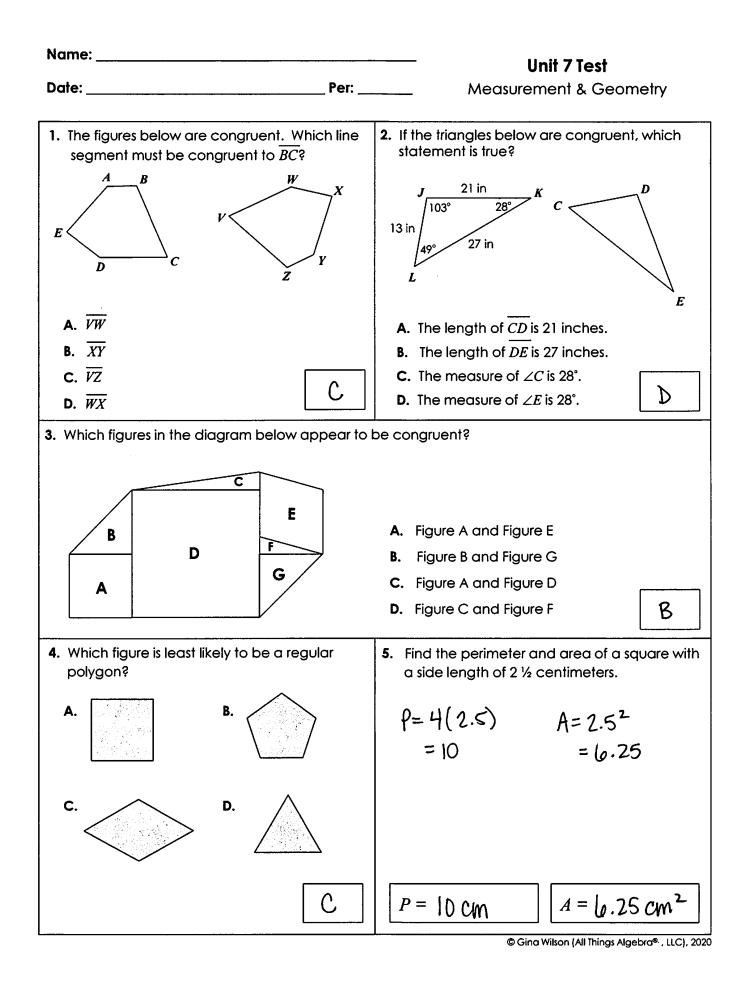
Topic 7: Surface Area of Prisms and Pyramids

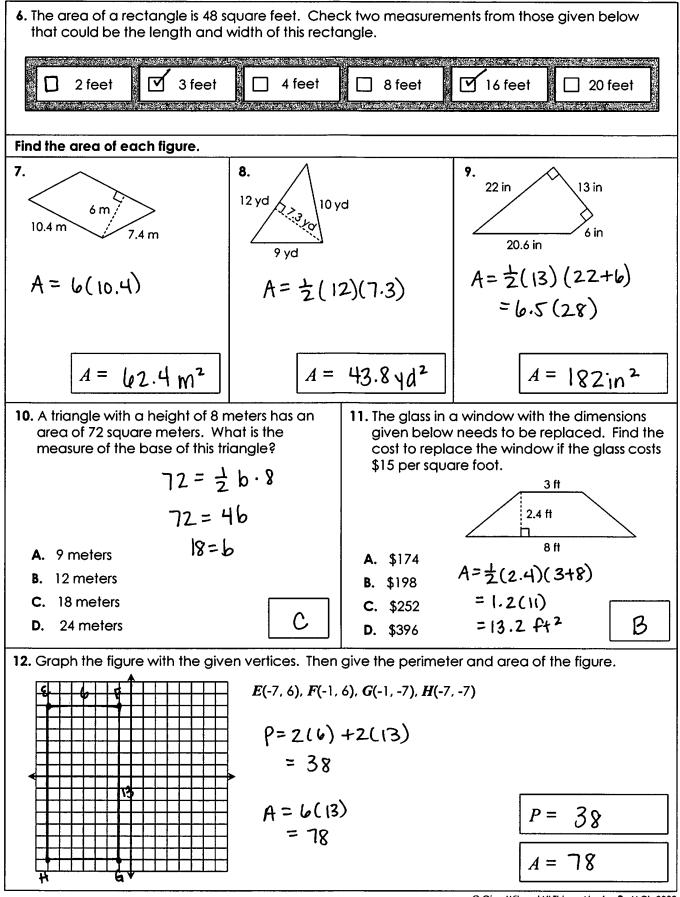


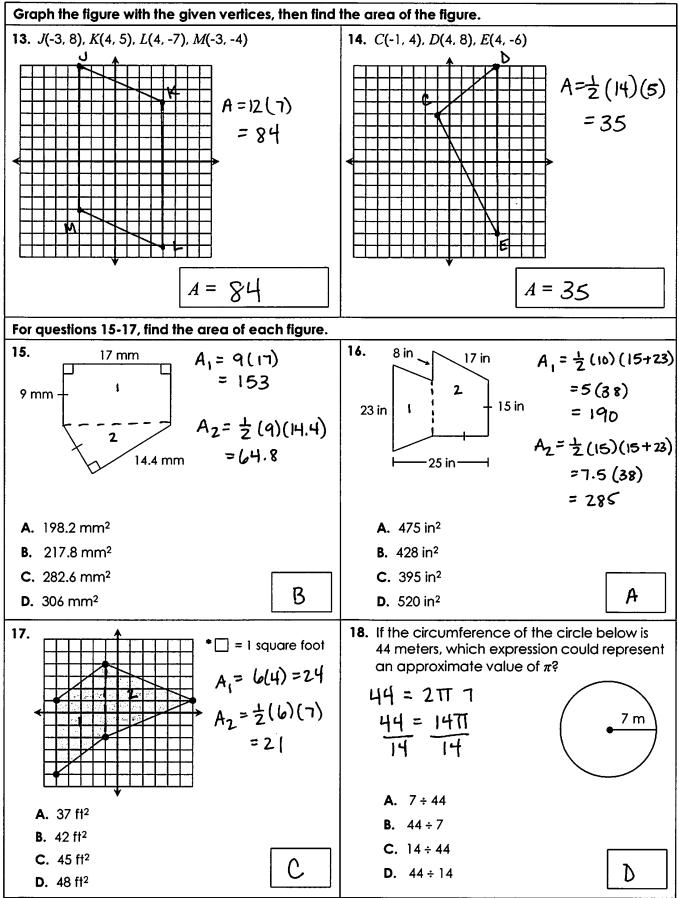




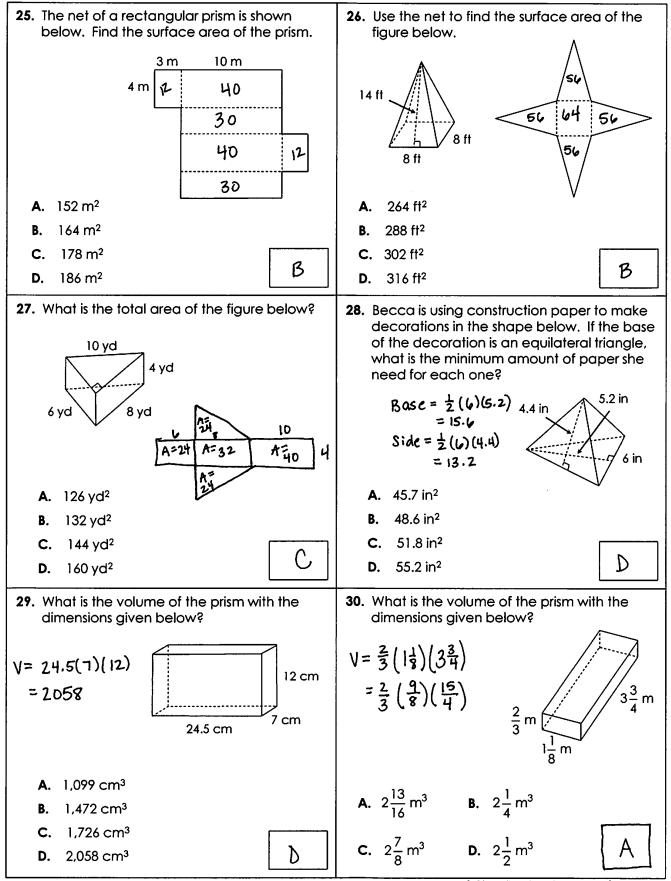








19. Which is closest to the circumference of a circle with a diameter of 8 yards? r=4 $C = 2\pi 4$ = 8 (3.14) = 25.12	20. If P if the center of the circle below, find the approximate area of the circle. $A = TT \cdot 17^{2}$ $= 289(3.14)$ P 17 mi
A. 25.12 yards B. 37.68 yards C. 12.56 yards D. 50.24 yards A 21. A swimming pool has a diameter of 24 feet. What is the minimum amount of fabric needed to make a cover for the pool if the cover must hang off by 1 foot all around the pool? r = 13	A. 53.38 mi <sup>2</sup> B. 106.76 mi <sup>2</sup> C. 907.46 mi <sup>2</sup> D. 4,534.16 mi <sup>2</sup> 22. A wheel has a radius of 62.5 inches. Find the distance the wheel travels in one full revolution. $C = 2 \pi (62.5)$ = 125(3.14)
$A = T \cdot 13^{2}$ = 169 (3.14) A. 78.5 ft <sup>2</sup> B. 81.64 ft <sup>2</sup> C. 490.63 ft <sup>2</sup>	<ul> <li>A. 196.25 inches</li> <li>B. 274.6 inches</li> <li>C. 318.8 inches</li> </ul>
<ul> <li>D. 530.66 ft<sup>2</sup></li> <li>23. If the figure below is folded along the dotted lines, which three-dimensional figure will it make?</li> </ul>	<b>D.</b> 392.5 inches $D$ <b>24.</b> The edge length of a cube is shown below. What is the total surface area of the cube? $SA = 6(5)^2$
A. Rectangular Prism B. Triangular Prism C. Rectangular Pyramid D. Triangular Pyramid	= 6(25) $= 6(25)$ 5 cm A. 25 cm <sup>2</sup> B. 30 cm <sup>2</sup> C. 125 cm <sup>2</sup> D. 150 cm <sup>2</sup> D



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