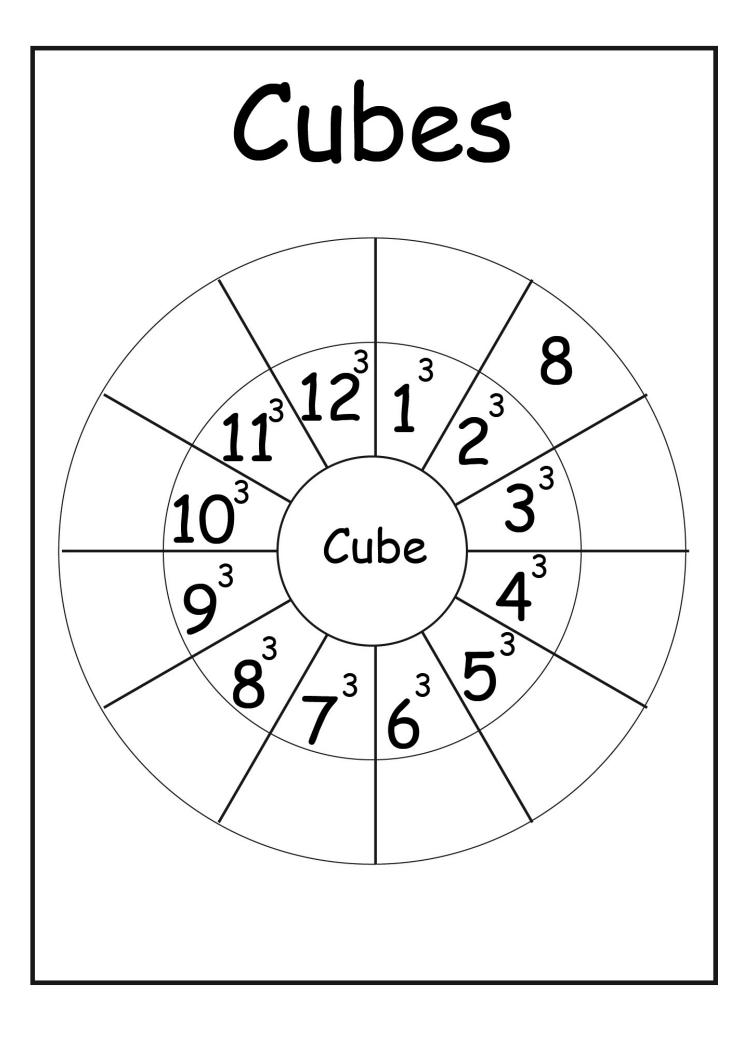


	(Squares and Square Roots
a.	$\sqrt{144} =$	b. √81 =
c.	√9 =	d. $\sqrt{49} =$
e.	$\sqrt{100} =$	f. √36 =
g.	√64 =_	
i.	$\sqrt{121} =$	^{j.} $\sqrt{25} =$
k.	$\sqrt{1}$ =	$\sqrt{0} =$
m.	10 ² =	
0.	5 [°] =	p. 7 ² =
0.	11 ² =	p. 6 ² =
q.	8 ² =	r. 1 ² =
S.	0 ² =	$4^2 =$
U.	$12^2 = $	3 ² =
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Name :	 Score :	
Teacher :	 Date :	

Evaluate the Squares and Cubes		
1)(10) ³ =	11) (8) ² =	
2) (9) ³ =	12) (10) ² =	
3) (8) ² =	13) (4) ³ =	
4) (2) ³ =	14) (2) ² =	
5) (1) ³ =	15) (7) ² =	
6) (6) ³ =	16) (3) ³ =	
7) (5) ² =	17) (4) ² =	
8) (3) ² =	18) (12) ² =	
9) (2) ³ =	19) (3) ³ =	
10) (3) ³ =	20) (9) ² =	

Name : _	 Score :	
Teacher :	 Date :	

Perfect Squares and Cubes Operations

Write the square or cube root for each number.

1) $\sqrt{36} =$ _____ 2) $\sqrt[3]{1} =$ _____ 3) $\sqrt{25} =$ _____ 4) $\sqrt{16} =$ _____ 5) $\sqrt[3]{343} =$ _____ 6) $\sqrt{81} =$ _____

Write the square root for each number.

7)
$$\sqrt{64} =$$
 _____ 8) $\sqrt{36} =$ _____ 9) $\sqrt{9} =$ _____
10) $\sqrt{49} =$ _____ 11) $\sqrt{1} =$ _____ 12) $\sqrt{100} =$ _____

Write the cube root for each number.

13)
$$\sqrt[3]{343} =$$
 14) $\sqrt[3]{64} =$ 15) $\sqrt[3]{1000} =$ 16) $\sqrt[3]{125} =$ 17) $\sqrt[3]{216} =$ 18) $\sqrt[3]{512} =$

Math Unit 12

- **1.** 1 foot 1.6 kilometers
- **2.** 3 feet 1 yard
- **3.** 5280 feet 12 inches
- **4.** 1 mile 1 mile

Name: _____ Date: _____

Length Conversion Practice - #1

Round answers to 2 decimal places

12 Inches = 1 Foot 3 Feet = 1 Yard 5280 Feet = 1 Mile

33 Yards =	Miles
83 Feet =	Yards
96 Feet =	Miles
37 I nches =	Feet
73 I nches =	Yards
32 Feet =	I nches
46 Feet =	Miles
18 Yards =	Miles
37 I nches =	Yards
6 Miles =	Yards
48 Feet =	Miles
10 I nches =	Feet
76 Feet =	Miles
94 Yards =	Miles

Name: _____ Date: _____

Length Conversion Practice - #2

Round answers to 2 decimal places

12 Inches = 1 Foot 3 Feet = 1 Yard 5280 Feet = 1 Mile

24 Yards =	Feet
6 Feet =	Inches
12 Yards =	Miles
48 Feet =	Inches
74 Yards =	Miles
21 Yards =	Miles
3 Miles =	Inches
3 Inches =	Feet
90 Yards =	Inches
98 I nches =	Yards
45 I nches =	Yards
85 Feet =	Miles
69 Yards =	Feet
8 Yards =	Inches

Name: _____ Date: _____

Length	Conversion	Practice	-	#3
--------	------------	----------	---	----

Round answers to 2 decimal places

63 Yards =	Miles
19 Yards =	Miles
29 Yards =	Miles
57 Yards =	Miles
38 I nches =	Feet
3 Miles =	Inches
55 Feet =	Inches
8 Miles =	Yards
97 Yards =	I nches
60 Yards =	Miles
97 I nches =	Feet
7 Miles =	Yards
10 Miles =	Yards
70 Feet =	Inches
18 Feet =	Yards

Math Unit 13

- **1.** 1 pound 1000 grams
- **2.** 2000 pounds 1 ton
- **3.** 1 kilogram 2.2 pounds
- **4.** 1 kilogram 16 ounces

answer.

Grams and Kilograms

A **gram** (g) is used to measure the weight or mass of very light objects. A small paperclip weighs about a gram.

A **kilogram** (kg) is used to measure the weight or mass of heavier objects. A one-liter bottle of water weighs about a kilogram.

	1 kilogram = 1,000 grams		
	3.7 kg = g 6,200 g = kg		
	3.7 kg x 1,000 = 3,700 g 6,200 ÷ 1,000 = 6.2 kg		
	3 kg = 3,700 g 6,200 g = 6.2 kg		
1.	A pencil weighs about a. 3 grams b. 500 grams c. 1.2 kilograms		
2.	A gallon of milk weighs about a. 39 grams b. 3.9 kilograms c. 39 kilograms		
3.	A pineapple weighs about a. 2.2 kilograms b. 22 kilograms c. 222 grams		
4.	8.7 kg = g 5. 2,200 g = kg		
6.	5,100 g = kg 7. 7.1 kg = g		
8.	12,000 g = kg		
10.	June's pet guinea pig weighs 950 grams. Larry's pet rabbit weighs 2.1 kilograms. How much more does Larry's pet weigh than June's? Explain how you found your		

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Name:_____

Weight Abbreviation for pounds = lbs. 1 pound = 16 ounces1 ton = 2,000 poundsAbbreviation for ounces = oz. Abbreviation for tons = T2.5 T = ____ lbs. 2.5 lbs. = ____ oz. 16 oz. + 16 oz. + 8 oz. = 40 oz. 2,000 lbs. + 2,000 lbs. + 1,000 lbs. = 5,000 lbs.2.5 T = 5,000 lbs.2.5 lbs. = 40 oz. 1. 1.5 lbs. = _____ oz. 2. 2 T = _____ lbs. 3. 7 lbs. = oz. 4. 6.5 T = Ibs. 5. 5.5 lbs. = ____ oz. **6.** 10.5 lbs. = _____ oz. 7. Which weighs more: 3.5 pounds of butter or 60 ounces of butter? Explain. Which weighs more: 2.5 pounds of rocks or 40 ounces of feathers? Explain. 8.

Name _____

Measurement Conversion Word Problems - Weight

 Ms. Bezel, the jewelry designer, ordered 500 grams of silver, 800 grams of brass, and 700 grams of copper. How many kilograms of metal did she order in all? 	2. Eric has two dogs. He feeds each dog 250 grams of dry food each, twice a day. If he buys a 10-kilogram bag of dry food, how many days will the bag last?
kilograms	
3. Mr. Snow bought 90 grams of Christmas candy for each of his 14 grandchildren. How many total kilograms of candy did he buy?	4. The vet instructed Manuel to give his dog .5 milligrams of medication per 1 kilogram of the dogs weight. His dog weighs 12 kilograms. How much total medication should the dog have?
kilograms	milligrams
5. Sarah purchased 8kg of sugar, 10kg of flour, 500g of cocoa, 225g of pecans, and 275g of coconut. How much do all her groceries weigh in kilograms?	6. The adult dosage directions for 325mg aspirin tablets reads "take 1 or 2 tablets every 4 hours, not to exceed 12 tablets in 24 hours." In grams, what is the maximum amount of aspirin an adult should take in one day?
kilograms	grams

Math Unit 14

- 1. 1 inch 1 kilometer
- 2. 100 centimeters •

- 2.54 centimeters
- **3.** 1000 meters 1 meter

Name _____

Measurement Conversion Word Problems - Length/Distance

1. Zach made a chart to show how many mm his plant grew each week for 7 weeks. Each block equals 5 mm of growth. How tall is the plant?	2. Susie begins a new walking program with 600 m on the first day. Each day, she will increase her walk by 200 m. How many kilometers will she walk on day 18 of her program?
3. Trudy wants to surround her garden on all four sides with fencing. Her rectangular garden is 270 cm by 130 cm. How many meters of fencing will she need?	4. Jin is training for the 50 meter dash. Each day that he trains, he runs the dash six times. Last week, he trained for four days. This week, he trained for five days. In two weeks, how far has Jin run?
 5. Lu is stringing beads to make a necklace. She is using 30 of the 8 mm beads, 70 of the 4 mm beads, and 40 of the 2 mm beads. How long will her finished necklace be? 	6. Mara is building a wind chime. She needs string in the following lengths: six pieces of 20 cm, 3 pieces of 30 cm and one piece of 40 cm. How much string does she need?
centimeters	meters

Length Conversion Practice - #4

Round answers to 2 decimal places

10 Millimeters = 1 Centimeter 10 Centimeters = 1 Decimeter

10 Decimeters = 1 Meter 1000 Meters = 1 Kilometer

9 Kilometers = _	Centimeters
------------------	-------------

- 10 Kilometers = _____ Decimeters
- 69 Decimeters = _____ Kilometers
- 9 Kilometers = _____ Centimeters
- 8 Kilometers = _____ Meters
- 72 Millimeters = _____ Meters
- 8 Kilometers = _____ Millimeters
- 10 Kilometers = _____ Centimeters
- 87 Meters = _____ Kilometers
- 54 Millimeters = _____ Meters
- 69 Meters = _____ Kilometers
- 76 Decimeters = _____ Millimeters
- 54 Decimeters = _____ Kilometers

Name: _____

Date: _____

Length Conversion Practice - #7

Round answers to 2 decimal places

12 Inches = 1 Foot	3 Feet = 1 Yard
5280 Feet = 1 Mile	2.54 Centimeters = 1 Inch
1.0936 Yards = 1 Meter	10 Millimeters = 1 Centimeter
10 Centimeters = 1 Decimeter	10 Decimeters = 1 Meter
1000 Meters = 1 Kilometer	1.609 Kilometers = 1 Mile

5 Miles = _____ Feet 4 Kilometers = _____ Meters 4 Miles = _____ Decimeters 3 Kilometers = _____ Decimeters 3 Miles = _____ Meters 79 Millimeters = _____ Yards 100 Decimeters = _____ Inches 5 Decimeters = _____ Yards 10 Kilometers = _____ Miles 74 Meters = _____ Miles 6 Miles = _____ Decimeters Name: _____

Date: _____

Length Conversion Practice - #9

Round answers to 2 decimal places

12 Inches = 1 Foot	3 Feet = 1 Yard
5280 Feet = 1 Mile	2.54 Centimeters = 1 Inch
1.0936 Yards = 1 Meter	10 Millimeters = 1 Centimeter
10 Centimeters = 1 Decimeter	10 Decimeters = 1 Meter
1000 Meters = 1 Kilometer	1.609 Kilometers = 1 Mile

 14 Feet = _____ Centimeters

 7 Kilometers = _____ Inches

 49 Decimeters = _____ Inches

 49 Decimeters = _____ Feet

 5 Kilometers = _____ Centimeters

 27 Feet = _____ Yards

 45 Centimeters = _____ Centimeters

 28 Meters = _____ Centimeters

 18 Decimeters = _____ Feet

 98 Yards = _____ Feet

 93 Decimeters = _____ Yards

Math Unit 15

- 1 tablespoon (tbsp)
- 2. 1 ounce (oz.)
- 3. 1 teaspoon (tsp) •
- 4. 1 tablespoon(tbsp)
- 5. 1 ounce (oz)
- 6. 1000 milliliters (ml) •

- 30 milliliters (ml)
- 1 liter (I)
- 15 milliliters (ml)
- 2 tablespoon (tbsp)
- 5 milliliters (ml)
- 3 teaspoons (tsp)

Name:



Convert from or to: oz, tsp or tbsp as requested.

Convert to or from ounces, teaspoons, tablespoons.							
1.	30 tsp =	fl oz	2.	44 tbsp =	tsp		
3.	48 tbsp =	fl oz	4.	5 tbsp =	tsp		
5.	6 tbsp =	fl oz	6.	36 fl oz =	tsp		
7.	47 tbsp =	fl oz + tbsp	8.	19 tsp =	tbsp + tsp		
9.	7 tsp =	tbsp	10.	21 fl oz =	tsp		
11.	34 fl oz =	tsp	12.	28 fl oz =	tsp		
13.	5 tsp =	fl oz	14.	9 fl oz =	tsp		
15.	40 fl oz =	tsp	16.	6 fl oz =	tbsp		

Ν	a	m	е	•
1 1			\sim	•

Converting Liters and Milliliters

Complete the tables below and answer the questions that follow.

	liters	1		9			mi	lliliters	4,000			550,000
	milliliters		5,000		30,000		ľ	iters		6	23	
	rule: mu	Itiply by	[,] 1,000]			rule	e: divid	e by 1,(000		
a.		any lite 5,000 mil		_			b.		nany m 23 liters		_	
C.	How m are in 9	any mill 1 liters?	iliters				d.		nany lite 550,000		ərs? _	
e.		nany lite 20,000 n		ś –		_	f.		nany m 100 lite		-	
g.		nany mi 11 liters		_			h.		many lit 1 890,00		ers?	
i.	Brenda has a 1 liter bottle of shampoo that is only half-full. About how many milliliters of shampoo does she have in the bottle?											
j.	6 liters	erkins ch s of oil. ers of oil	He put	4,500 เ	mL in hi			•	іу 			

Measurement Conversion Word Problems - Liquid Volume

1.	Mrs. Smith is planning a class party for 18 students. She will be serving apple juice. If she serves 250 ml per student, how many liters of juice will she need to buy?	n ji s	Ar. Green's lawn mower holds 600 nilliliters of gasoline in the tank. He ust filled his 6 liter gas can at the station. How many times will he be able to fill his lawn mower tank from he gas can?
	liters	-	
3.	While Justin is in training, he is to drink 500 milliliters of water 4 times per day. How many liters of water will that be for one week?	a 5	a punch recipe calls for 3 liters ginger ale, 1.5 liters tropical fruit juice, and 500 milliliters pineapple juice. How nuch punch will the recipe make?
	liters	_	liters
5.	Sean has 3 2-liter bottles of soda. If he divides the soda equally between himself and his 11 friends, how much soda will each person have?	c T f¢ n	ann is baking 2 cakes, brownies, cookies and 2 pies for the bake sale. The recipes call for milk in the ollowing amounts: 230 ml, 50 ml, 120 nl, 200 ml, 300 ml, and 100 ml. How nuch milk does she need in all?
	milliliters	_	liters

Math Unit 16-18

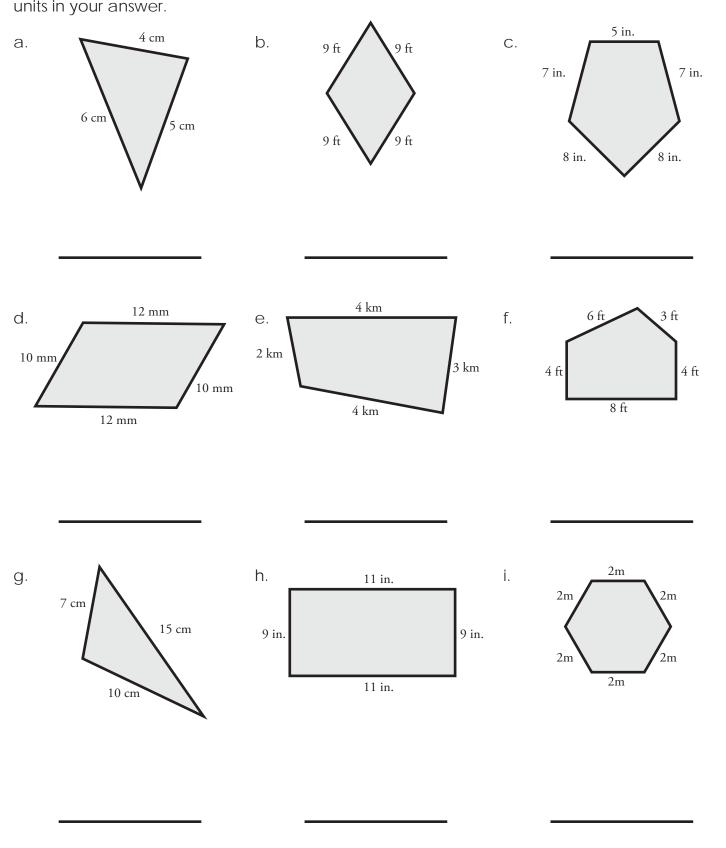
- The perimeter of a polygon
- 2. The area of a rectangle
- 3. The area of a square
- 4. The volume of a rectangular solid
- 5. The area of a triangle
- Three types of triangles
- **7.** Pi •
- 8. The circumference of a circle
- 9. The area of a circle

- 1/2 its base times its height
- Right triangle, isosceles triangle, equilateral triangle
- one of its sides squared
- 2 times Pi times its radius
- Pi times its radius squared
- 3.14
- The sum of the length of its sides
- its length time its width times its height
- Its base times its height

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Name:
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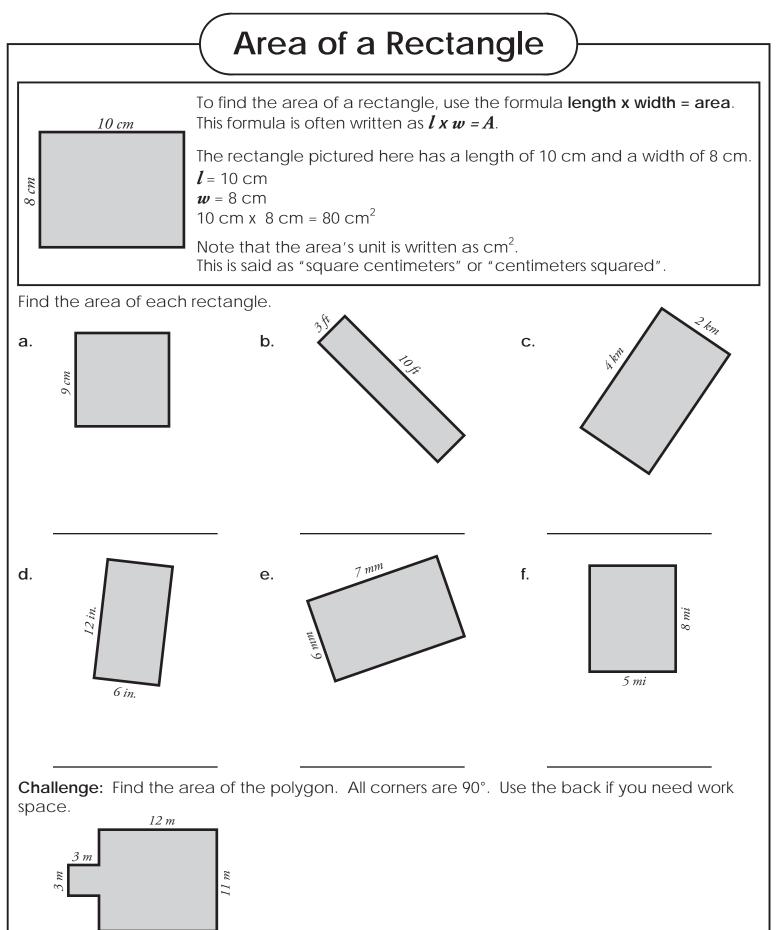
Perimeter of a Polygon

Find the perimeter of each shape by adding the lengths of each side. Be sure to include the units in your answer.

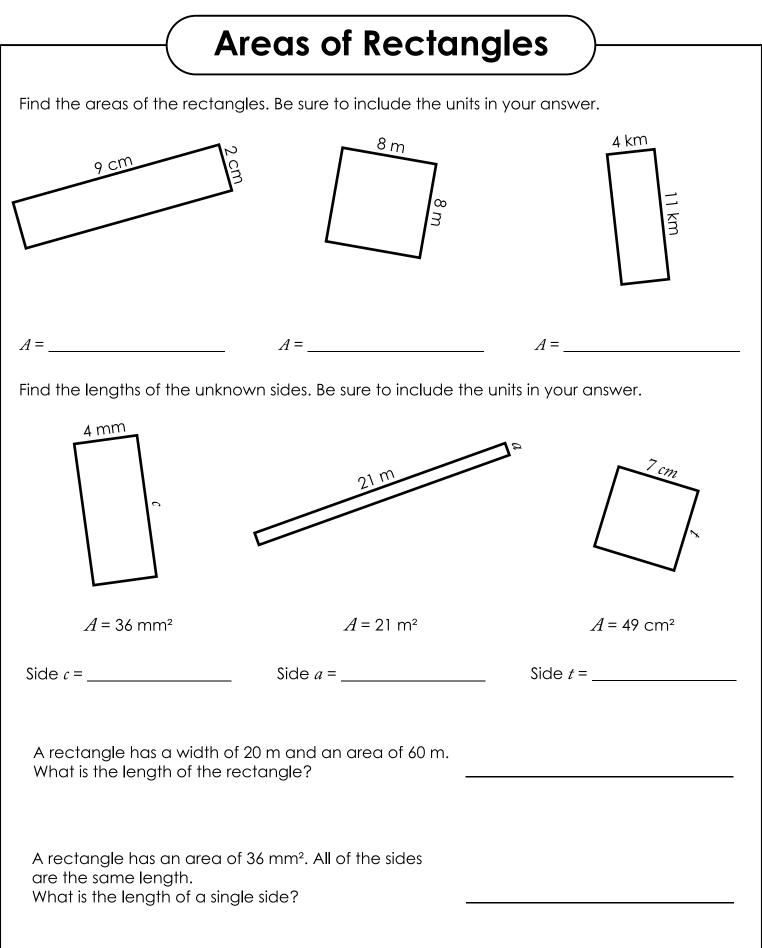


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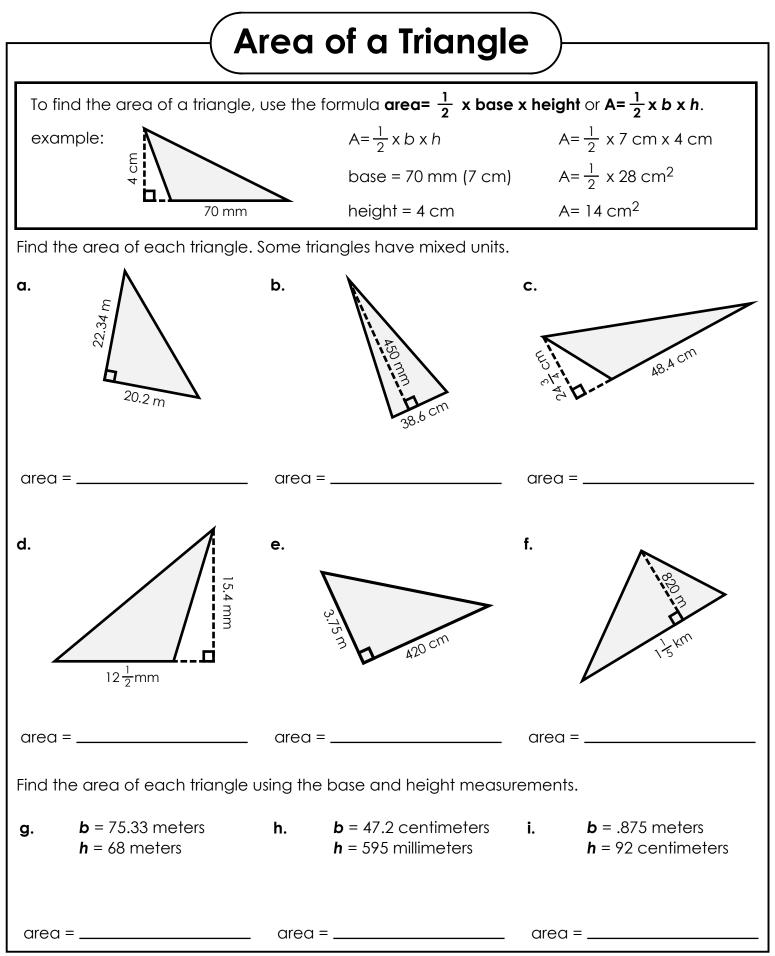


Math Unit 16-18

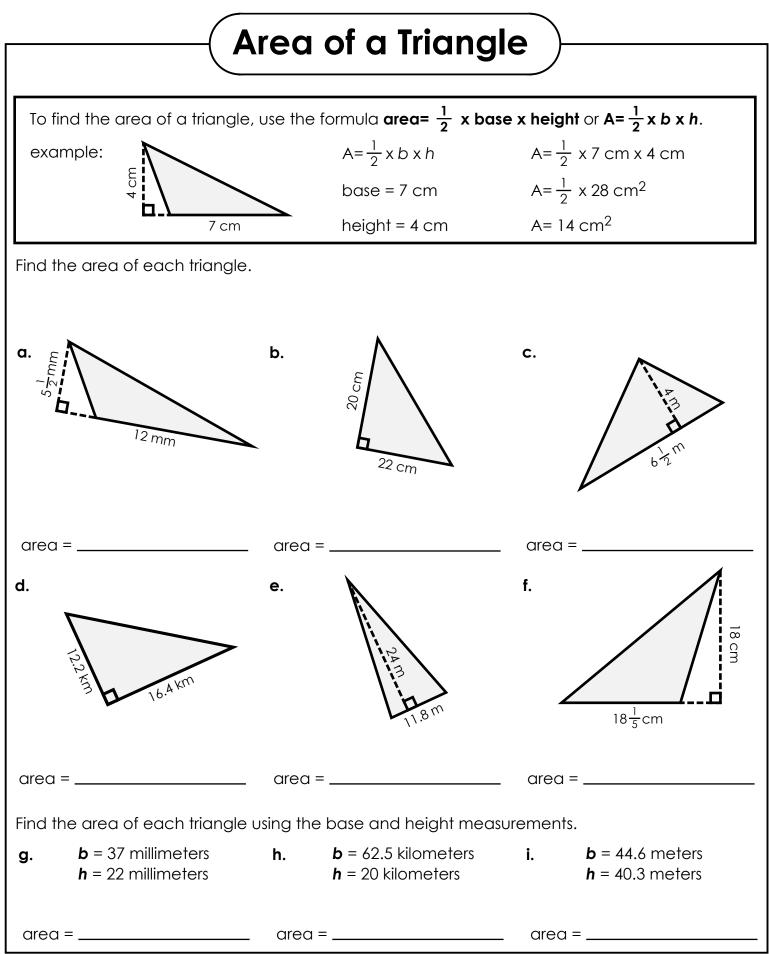
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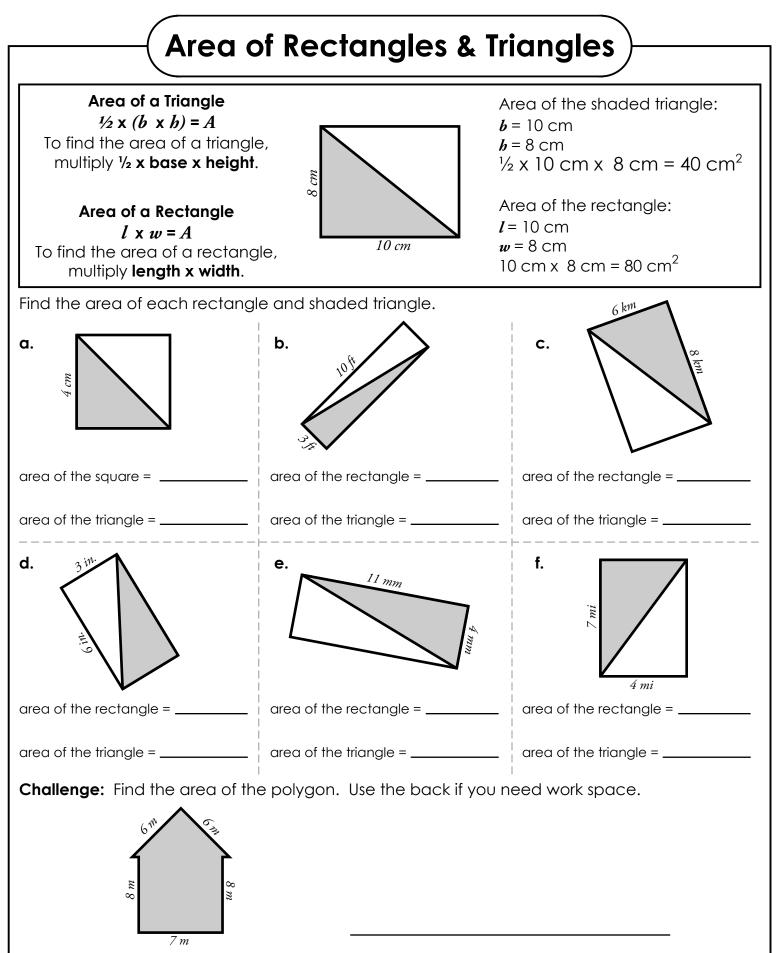
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Name: _____



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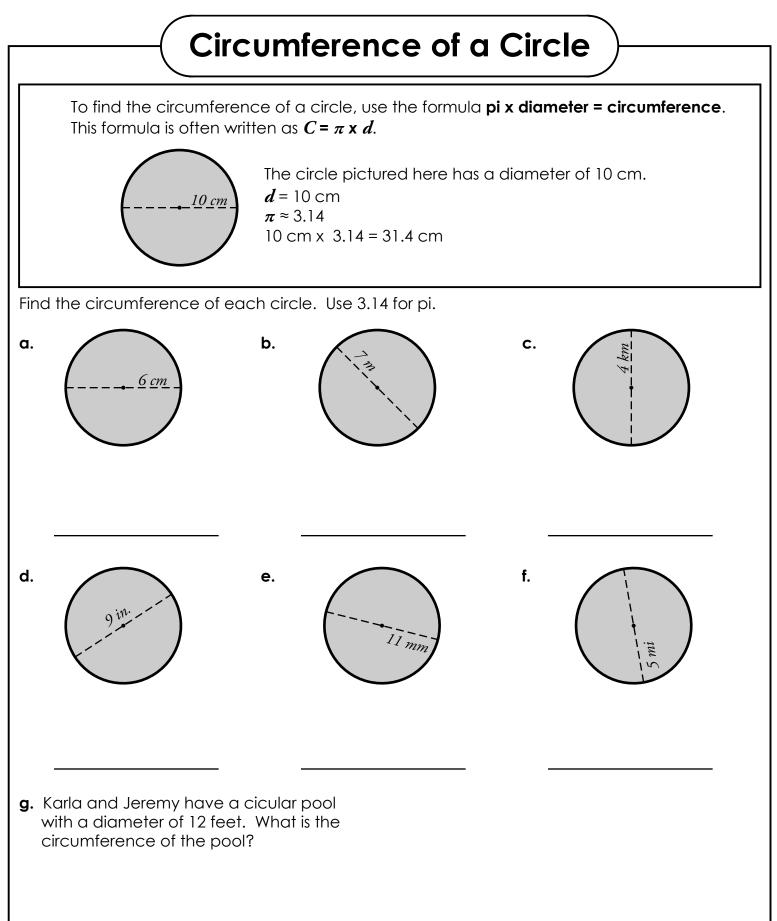
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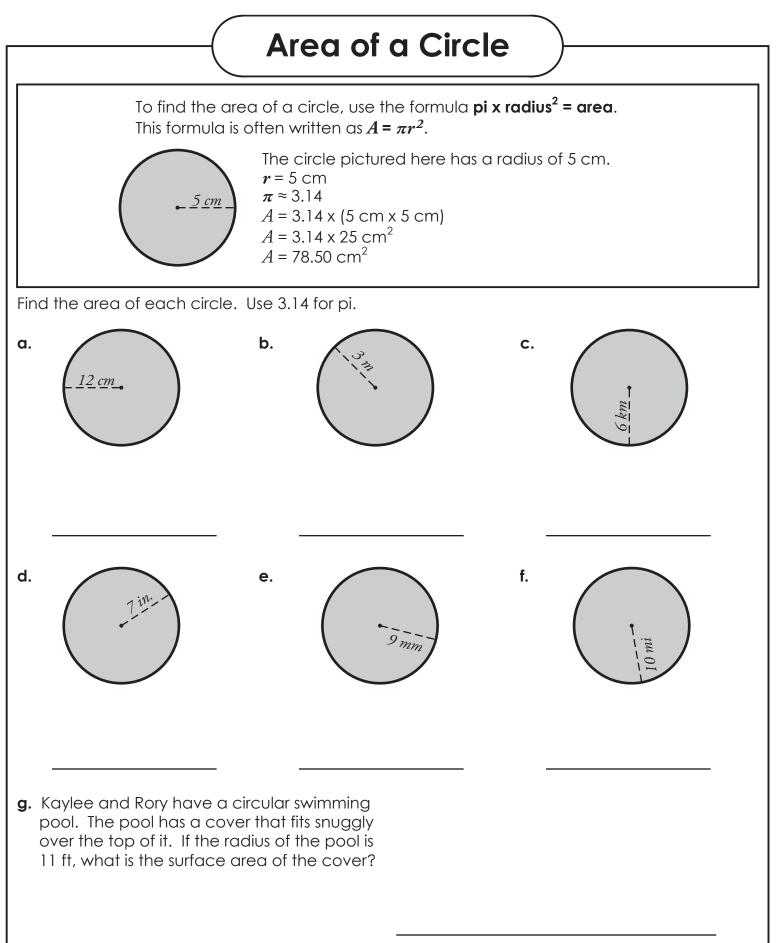
Math Unit 16-18

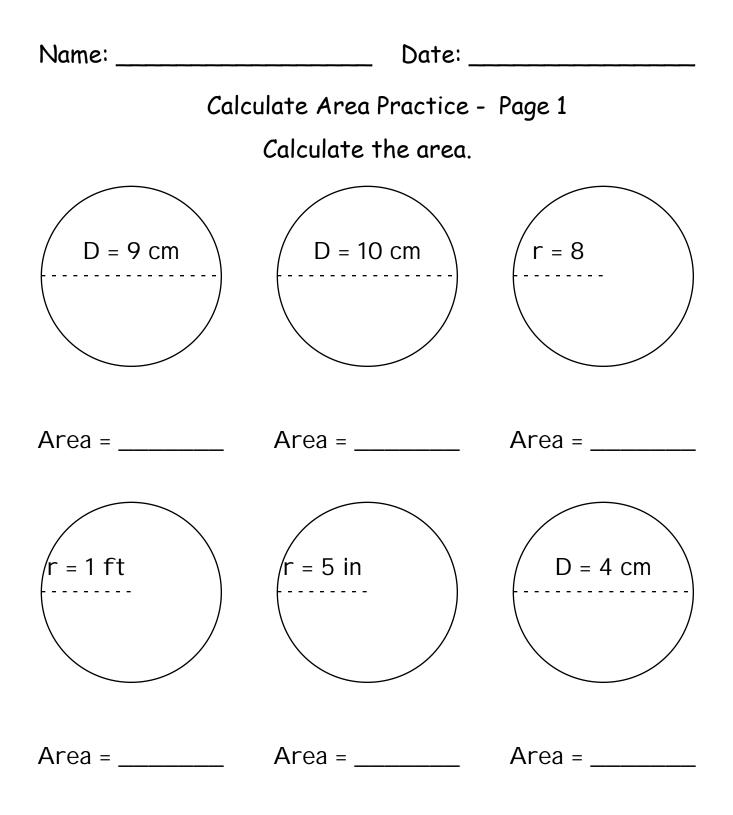
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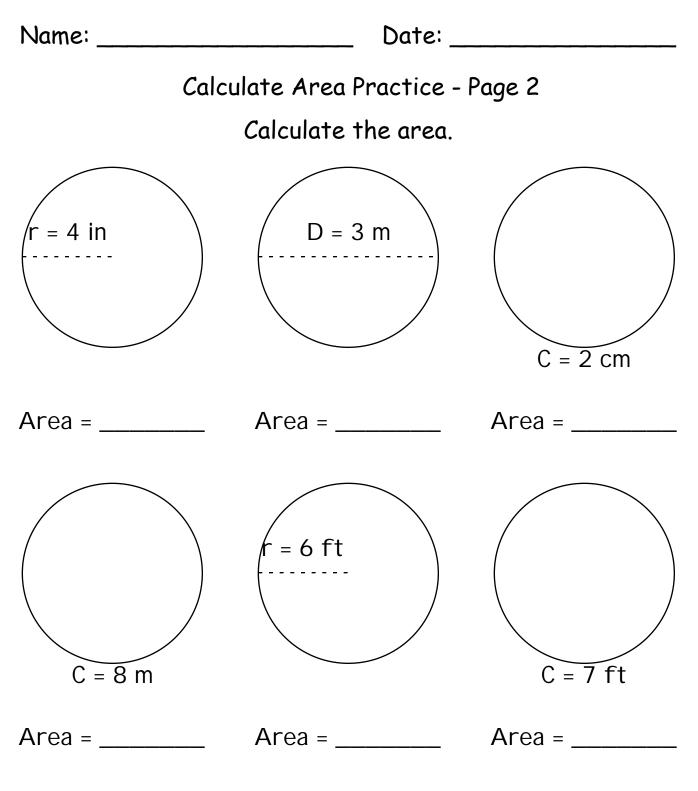
Name:







Area: Pi (3.14) x the radius (r) squared Diameter = radius x 2



Area: Pi (3.14) x the radius (r) squared Diameter (D)= radius x 2 ; Circumference = D x Pi

Area from Circumference: Circumference = Pi x diameter = Pi x (2 x radius) Radius = Circumference/(2xPi) Once you have the radius, use the formula: Area = Pi x the radius (r) squared