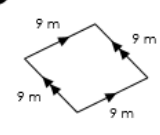
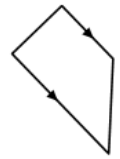
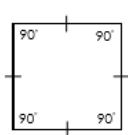



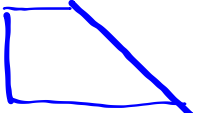
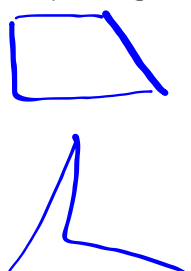

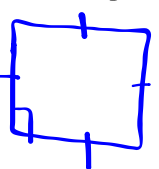
WHAT AM I? Check all that apply.

<p>1</p>  <ul style="list-style-type: none"> <input type="checkbox"/> Quadrilateral <input type="checkbox"/> Trapezoid <input type="checkbox"/> Isosceles Trapezoid <input type="checkbox"/> Parallelogram <input type="checkbox"/> Rectangle <input type="checkbox"/> Rhombus <input type="checkbox"/> Square 	<p>2</p>  <ul style="list-style-type: none"> <input type="checkbox"/> Quadrilateral <input type="checkbox"/> Trapezoid <input type="checkbox"/> Isosceles Trapezoid <input type="checkbox"/> Parallelogram <input type="checkbox"/> Rectangle <input type="checkbox"/> Rhombus <input type="checkbox"/> Square 	<p>3</p>  <ul style="list-style-type: none"> <input type="checkbox"/> Quadrilateral <input type="checkbox"/> Trapezoid <input type="checkbox"/> Isosceles Trapezoid <input type="checkbox"/> Parallelogram <input type="checkbox"/> Rectangle <input type="checkbox"/> Rhombus <input type="checkbox"/> Square
--	--	--

TRUE OR FALSE?

<p>4 All rhombi are parallelograms.</p> <p style="text-align: center; font-size: 2em;">T</p>	<p>5 All quadrilaterals are trapezoids.</p> <p style="text-align: center; font-size: 2em;">F</p>	<p>6 A rectangle is <u>never</u> a rhombus.</p> <p style="text-align: center; font-size: 2em;">F</p>	<p>7 A parallelogram is sometimes a square.</p> <p style="text-align: center; font-size: 2em;">T</p>	<p>8 A trapezoid is sometimes a parallelogram.</p> <p style="text-align: center; font-size: 2em;">F</p>
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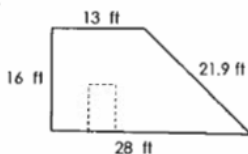
DRAW THAT SHAPE! (if possible!)

<p>9 A rectangle that is not a square.</p> 	<p>10 A parallelogram that is not a quadrilateral.</p> <p style="text-align: center; font-size: 2em;">X</p>	<p>11 A rectangle that is not a parallelogram.</p> <p style="text-align: center; font-size: 2em;">X</p>	<p>12 A trapezoid that is not an isosceles trapezoid.</p> 
<p>13 A quadrilateral that is not a parallelogram.</p> 	<p>14 A parallelogram that is not a rectangle.</p> 	<p>15 A square that is not a rhombus.</p> <p style="text-align: center; font-size: 2em;">X</p>	<p>16 A rhombus that is a rectangle.</p> 

PERIMETER & AREA Applications

Directions: Read each problem carefully and solve! Draw pictures when necessary.

1 A 7-foot by 3-foot doorway is to be cut into a trapezoid-shaped wall as shown below. Find the area of the wall with the door cut out.



$$328 \text{ ft}^2 - 21 \text{ ft}^2$$

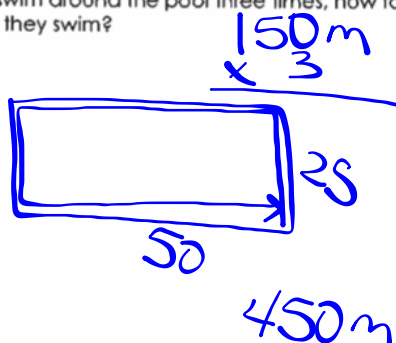
$$307 \text{ ft}^2$$

2 Mr. Brinkley has a triangular-shaped area for his horses with sides measuring 30 meters, 64 meters, and 87 meters. He would like to enclose this area with a fence. If the fencing comes in 2.5-meter sections, how many sections of fence will be needed?

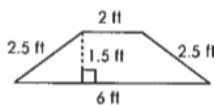
$$\text{fence } \frac{181 \text{ m}}{2.5}$$

$$73 \text{ sections}$$

3 An Olympic-sized pool measures 50 meters by 25 meters. If a coach asked his swimmers to swim around the pool three times, how far will they swim?

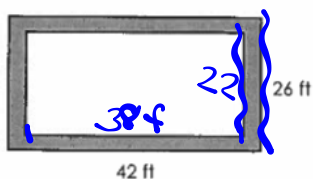


4 Mrs. Humphrey needs to replace a broken window on her house. The window is shaped like a trapezoid with dimensions shown below. If glass costs \$21.50 per square foot, how much will the replacement window cost?



$$6 \text{ ft}^2 \times 21.50 = \$129$$

Use for questions 5-6: Plans for a rectangle-shaped garden will include a 2-foot wide cement walkway surrounding it, as shown in the picture below.



5 If concrete costs \$4.50 per square foot, how much will it cost to fill the walkway?

$$42(26) = 1092$$

$$38(22) = 836$$

$$256 (4.50) = \$1152$$

6 For the holiday season, lights will be strung along each side of the walkway. If one box of lights will cover 10 feet of walkway, how many boxes are needed?

$$136 \div 10 \approx 14$$

$$120 \div 10 = 12$$

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26

7 Mr. Marsh plans to tile the floor in his 6-foot by 8-foot front hall. If each tile is an 8-inch square, what is the minimum number of tiles needed to cover the floor?

6 ft
 8 ft
 6912 in^2
 64 in^2
 108

8 The total area of a picture frame, including the glass and 1.5-inch wide wooden frame, is 238 square inches. If the frame is 17 inches tall, what are dimensions of the maximum picture size that will fit in the frame?

17 in
 1.5 in
 14×11
 $\frac{238}{17} = 14$

9 The intersections of three streets form a triangle as shown below. If Kelly decides to make this triangle her running route today, how far will she run?

2.5 mi
 6.5 mi
 6 mi
 15

10 Mrs. Watson has 30 desks in her math class, each shaped like the trapezoid shown below. She plans to cover each one with bulletin board paper for a project. What is the minimum amount of paper she will need?

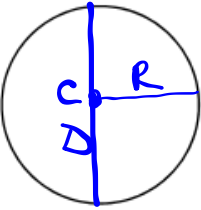

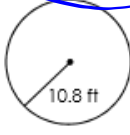

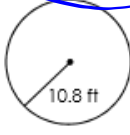

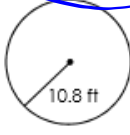
22 in
 17.9 in
 18 in
 26 in
 429.6 in^2
 $\times 30$
 $12,888 \text{ in}^2$

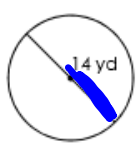
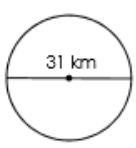
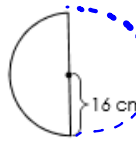

11 One of the display boards at the Dallas Cowboys' stadium has a screen size of 11,393 square feet. If the width of the board is 160 feet, find its height.

$11,393 \div 160$
 71.2 ft


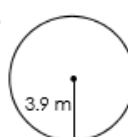
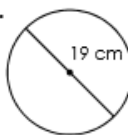
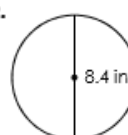
12 The vertical tail on an airplane is shaped like a trapezoid, with dimensions shown below. If each side of the tail is to be painted, and one can of paint covers 150 square feet, how many cans of paint are needed?

6 ft
 19.2 ft
 13.6 ft
 $188.16 (2)$
 376.32
 150
 3

Main Ideas/Questions	Notes/Examples		
CIRCLE			
PARTS OF A CIRCLE 	Center: a point in the middle of a circle equal distance from the outside of the circle		
	Radius: measurement from the center to any point on the circle (halfway across)		
	Diameter: measurement across the circle through the center		
	Circumference: distance around the circle		
	FORMULAS		
AREA & Circumference $\pi = 3.14$ x^2	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"> AREA OF A CIRCLE: $A = \pi r^2$ </td> <td style="width: 50%; text-align: center;"> CIRCUMFERENCE OF A CIRCLE: $C = 2\pi r$ / $C = \pi d$ </td> </tr> </table>	AREA OF A CIRCLE: $A = \pi r^2$	CIRCUMFERENCE OF A CIRCLE: $C = 2\pi r$ / $C = \pi d$
	AREA OF A CIRCLE: $A = \pi r^2$	CIRCUMFERENCE OF A CIRCLE: $C = 2\pi r$ / $C = \pi d$	
	Find the area of each circle. Round to the nearest tenth.		
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 1.  $A = 3.14(3)^2$ $28.26m^2$ $28.3m^2$ </td> <td style="width: 50%; vertical-align: top;"> 2.  </td> </tr> </table>	1.  $A = 3.14(3)^2$ $28.26m^2$ $28.3m^2$	2. 	
1.  $A = 3.14(3)^2$ $28.26m^2$ $28.3m^2$	2. 		

πr^2	<p>3.</p>  <p>14 yd</p> $3.14(7)^2$ 153.9 yd^2	<p>4.</p>  <p>31 km</p>
<p>Half of a circle is called a Semicircle</p>	<p>5.</p>  <p>16 cm</p> $\frac{3.14(16)^2}{2}$ 401.92 cm^2	<p>6.</p>  <p>22.6 in</p>

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$C = 2\pi r$ $C = \pi d$	Find the circumference of each circle. Round to the nearest tenth.	
	7.  $2(3.14)17$ 106.8 mm	8. 
	9.  $3.14(19)$ 59.7 cm	10. 
	11. Find the radius of a circle if its area is 706.9 square millimeters.	12. If the area of a circle is 28.27 square inches, find the length of its diameter.
13. If the circumference of a circle is 41.8 feet, find the diameter of the circle.	14. The circumference of a circle is 50.24 centimeters. Find its radius.	

Applications

After quiz finish circle problems (no word problems)

IXL Lessons 5th Grade

Smart Score 90

Circles EE.15

Triangles EE.5

USE YOUR FORMULA SHEET

Parallelograms/Trapezoids EE.6

IF YOU ARE DONE WITH IXL LESSONS:

google chrome, prodigy, select play prodigy, select new student

Class Code: 71BE30

Follow steps to set up, select level 6