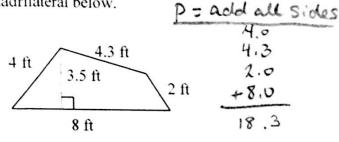
Math 7/7+ Unit 10 2D Review

Draw a picture, write a formula and use your formula to solve each problem. Use 3.14 for π and round to the tenths. Remember to include the *correct* units!

18.3 \$\frac{1}{2}\$ 1. Find the perimeter of the quadrilateral below.



wheel in Osaka, Japan stands 369 feet tall. Its wheel has a diameter of 328 feet. Find the circumference of the Ferris wheel.

180.8 m² 3. Find the area of a triangle with a base of 20.5 meters and a height of 17.64 meters.

with base 20.4 inches, base 214.4 inches, and a

height of 9.7 in.

$$A = \frac{1}{2} \lambda (b_1 + b_2)$$

$$A = \frac{1}{2} (9.7)(20.4 + 14.4)$$

$$A = \frac{1}{2} (9.7)(34.8)$$

$$A = 168.78$$

5. A rose garden in a city park is 12.5 meters wide. If the area of the garden is 100 square meters, what is the length of the garden?

6.2 meters by 9.5 meters. How many square meters of carpeting are needed to cover the floor of this

141.3 in 2 7. The Pizza Pie sells a large pizza with a diameter of 18 inches and a medium pizza with a diameter of 12 inches. How many more square inches are in the large pizza?

8. A triangular sail has a base of 7 meters and a height of 12 meters. If canvas costs \$21.50 a square meter, find the cost of canvas to make the sail. $A = \frac{1}{2}bh$ $21.5(42) = A = \frac{1}{4}(7)(12)$ A = 42

9. Find the circumference and area of a circle with a diameter of 25 inches.

$$C = \frac{78.8 \text{ in}}{490.6 \text{ in}^2}$$
 $C = 740$ $A = 740$ $C = (3.14)(25)$ $A = 490.625$ $C = 78.76$ $A = 490.625$

13.8 # 10. Bob cuts a circle out of an 8foot square to make a circular table. What is the
area of the regions of the square he does not use for
the circular table? Hint: after drawing a picture
shade the regions he will not use for the table.

Baxter, the cat, has an isosceles-triangle shaped house. The base of his house is 6 feet, the height is 4 feet and the sides are 5 feet. Use the triangle shaped front view of the house to answer the following questions.

How much wood is needed to make the frame of Baxter's house? Perimeter = add Sides 6+5+5 = (6 ft

What is the area of Baxter's house (the 2D triangle front view)? A= tbh

His owners decide to triple the dimensions of his house. How much wood will they need to make the frame of Baxter's house?

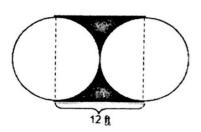
How many times more wood do his owners need to make the frame of his new house?

What is the area of Baxter's new house (the 2D triangle front view)?

How many times bigger is the area front view of Baxter's new house?

18 meters





Area of Square:

Area of Circles:

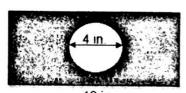
Area of shaded region:

30.96 92 144-113,04

X9 7.

3.

7 in.



16 in

Area of square:

Area of shaded region

324 m2 18.18

254.34m23.14 (9)2

Area of circle

69.66 2 324-254.34

Area of shaded region

Area of rectangle:

Area of circle:

12.56 in2 3.14 (2)2 99.44 112-12.56

11212 16.7

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