

PLUS

Name:

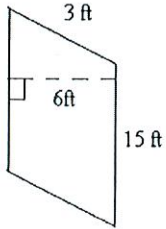
1. Review: Angles, Perimeter, Area, Circles

Date:

Period:

REMEMBER: Partial credit is granted only when work is shown and comprehensible!

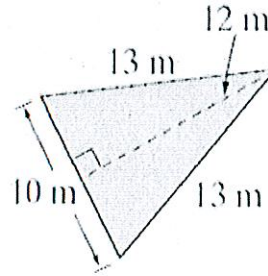
Find the perimeter and area of each shape. Don't forget to label your answers!



$$3 + 3 + 15 + 15 = 36 \text{ FT}$$

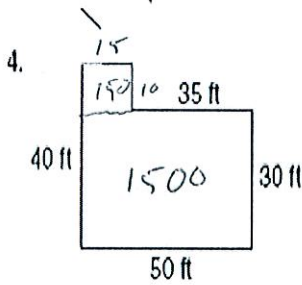
1. Perimeter = 36 FT
 2. Area = 90 FT²

$$6 \times 15 = 90$$

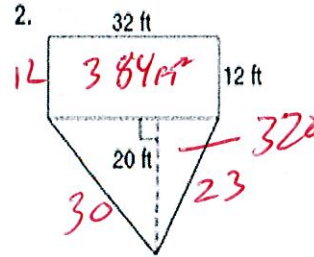


3. Perimeter = 36 m
 4. Area = 60 m²

$$\frac{12 \times 10}{2}$$

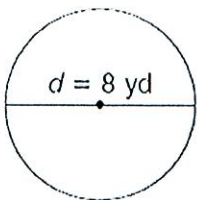


5. Perimeter = 180 FT
 6. Area = 1650 FT²



7. Perimeter = 1309 FT
 8. Area = 704 FT²

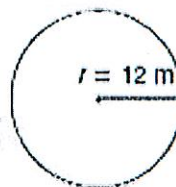
Find the circumference and area. Use 3.14 for pi. Don't forget to label your answers!



$$2\pi r = 2\pi 4 = 25.12$$

$$\pi r^2 = \pi 4^2 = 50.24$$

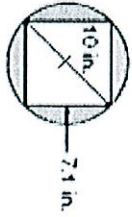
9. Circumference = 25.12 yd
 10. Area = 50.24 yd²



$$C = 2\pi r = 2 \cdot 3.14 \cdot 12$$

$$A = \pi r^2 = 3.14 \cdot 12^2$$

11. Circumference = 75.36 m
 12. Area = 452.16 m²



$$AD = 7.1 \times 7.1 = 50.41$$

$$A = \pi r^2 = 78.5$$

13) Find the area of the shaded region. Use 3.14 for pi.
 28.09 in^2

14) A horse is on a 16 ft long rope tethered to a tree. What is the total area that the horse has to graze?

16
 $3.14 \times 16^2 = 803.84 \text{ ft}^2$

15) A circular pool has a circumference of 520 centimeters. What is the diameter of the table?

165.6 FT
 $520 = \pi d$

16) Explain how you would use the expression $2L + 2W$ to find the perimeter of the figure below.
 19 mi
 32 mi

WE CAN ADD THEM TOGETHER TO FIND PERIMETER
 SINCE THERE ARE TWO LENGTHS THAT ARE THE SAME & 2 WIDTHS THAT ARE THE SAME

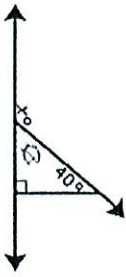
2(19) + 2(32) = 102

17) A tire on Mark's car has a radius of 24 inches. What is the approximate circumference of the tire?

2(24) = 48
 $8 \times 64 \times 9 \times 28 = 113 \text{ FT}^2$

18) Three paintings are shaped like an 8-foot square, a 7-foot by 4-foot rectangle, and a triangle with a 6-foot base and a height of 7 feet. If those paintings are hung together on the outside of a building, how much of the building's wall will they cover altogether?

19) Find the measure of angle x.



$$90 - 40 = 50$$

$$x = 130^\circ$$

$$\frac{180}{130}$$

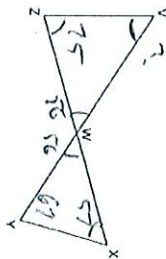


$$x = 30$$

$$180 - 60 = 120$$

$$x = 120$$

21) In the figure below, $m\angle WXY = 57^\circ$, $m\angle XYW = 67^\circ$, and $m\angle WZV = 75^\circ$.



What is $m\angle ZVW$?

$$57 + 67 = 124$$

$$180 - 124 = 56$$

If the angles can form a triangle, classify it as acute, obtuse, or right.

49 degrees
 OBTUSE

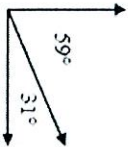
22) $35^\circ, 45^\circ, 100^\circ$

23) $50^\circ, 89^\circ, 41^\circ$

ACUTE

Classify each pair of angles using at least one of the following terms: adjacent, vertical, complementary, supplementary.

24.



ADJACENT / Complementary

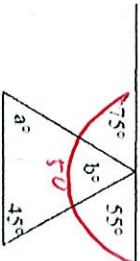
25.



SUPPLEMENTARY / ADJACENT

26.

Find the measure of angle a and b. Show your work.



$$75 + 55 + b = 180$$

$$b = 50$$

$$50 + 45 + a = 180$$

$$a = 85$$