

April 15, 2015 ^{1st} *Starter* ^{2nd}

Three types of monkeys were playing in the jungle with a wobbly tree. By varying the number of monkeys in the branches on each side of the tree, they found that they could keep it in an upright position. They found that:

2 howler monkeys and 1 squirrel monkey balanced 4 spider monkeys
and
2 spider monkeys and 1 squirrel monkey balanced 3 howler monkeys.

Assuming that every monkey of each type is the same size and weight, how many squirrel monkeys would balance 4 howler monkeys?

Gaze



4/15 - Area and Perimeter/Circumference

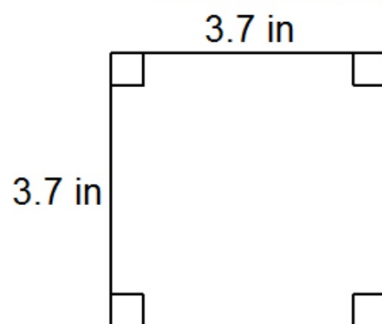
Find the area of each and perimeter of each, if possible.

Show all of your work using formulas, substitution, solving and labeling.

Square

$$A = s^2$$

$$P = 4s$$



$$A = s^2$$

$$= (3.7)^2$$

$$= 13.7 \text{ in}^2$$

$$3.7 \times 3.7 = 13.69$$

$$P = 4s$$

$$= 4(3.7)$$

$$= 14.8 \text{ in}$$

Every problem
MUST have:

1. Formula
2. Substitute
3. Solve
4. Label
5. Organized

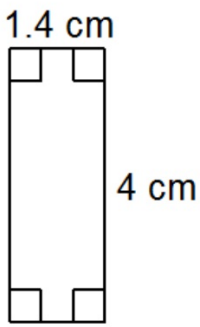
Rectangle

$$A = LW$$

$$P = 2(L+W)$$

$$P = 2L + 2W$$

$$\begin{aligned} A &= LW \\ &= (4)(1.4) \\ &= 5.6 \text{ cm}^2 \end{aligned}$$


$$\begin{aligned} P &= 2L + 2W \\ &= 2(4) + 2(1.4) \\ &= 8 + 2.8 \\ &= 10.8 \text{ cm} \end{aligned}$$

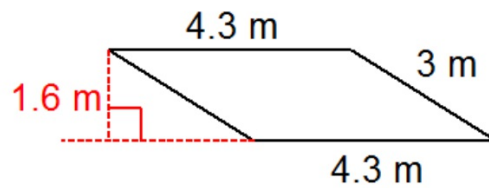
Parallelogram

$$A = BH$$

base · height

$$P = 2B + 2S$$

slant height



$$\begin{aligned} A &= BH \\ &= (4.3)(1.6) \\ &= 6.9 \text{ m}^2 \end{aligned}$$

$$4.3 \times 1.6 = 6.88$$

$$\begin{aligned} P &= 2B + 2S \\ &= 2(4.3) + 2(3) \\ &= 8.6 + 6 \\ &= 14.6 \text{ m} \end{aligned}$$

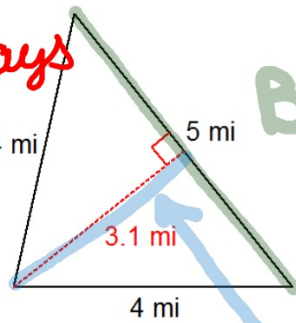
Triangle

$$A = \frac{1}{2}bh$$

$P =$ add all sides
 $P = a + b + c$

$$\begin{aligned} A &= \frac{1}{2}bh \\ &= \frac{1}{2}(5)(3.1) \\ &= (2.5)(3.1) \\ &= 7.8 \text{ mi}^2 \end{aligned}$$

$B + H$
are always
perpendicular
(at 90° angle)



Base

$$\begin{aligned} P &= a + b + c \\ &= 4 + 4 + 5 \\ &= 13 \text{ mi} \end{aligned}$$

height

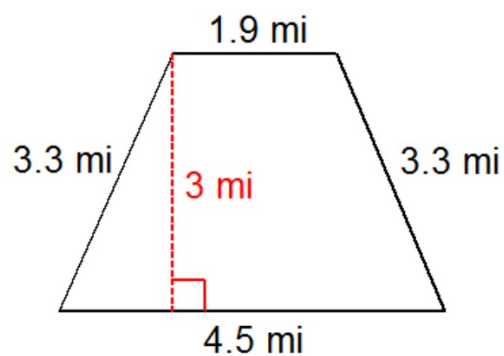
Trapezoid

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

$P =$ add all sides

$$P = a + b + c + d$$

$$\begin{aligned} A &= \frac{1}{2}(b_1 + b_2)h \\ &= \frac{1}{2}(1.9 + 4.5)(3) \\ &= \frac{1}{2}(6.4)(3) \\ &= (3.2)3 \\ &= 9.6 \text{ mi}^2 \end{aligned}$$



$$\begin{aligned} P &= a + b + c + d \\ &= 3.3 + 4.5 + 3.3 + 1.9 \\ &= 13 \text{ mi} \end{aligned}$$

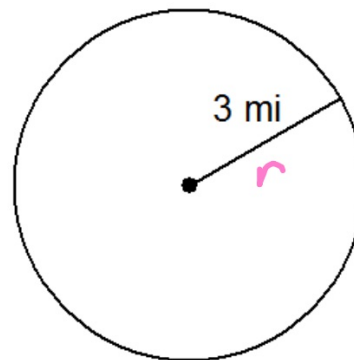
Find the area and circumference of each. Round to the nearest tenth.

Circle

$$A = \pi r^2$$

$$C = 2\pi r$$

$$\pi = 3.14$$



$$\begin{aligned} A &= \pi r^2 \\ &= (3.14)3^2 \\ &= (3.14)9 \\ &= 28.3 \text{ mi}^2 \end{aligned}$$

$$3.14 \times 9 = 28.26$$

$$\begin{aligned} C &= 2\pi r \\ &= 2(3.14)3 \\ &= 6(3.14) \\ &= 18.8 \text{ mi} \end{aligned}$$

$$6 \times 3.14 = 18.84$$

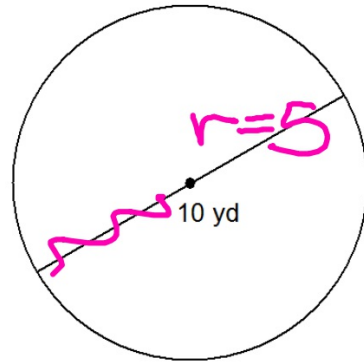
Soafur

Circle

$$A = \pi r^2$$

$$C = 2\pi r$$

$$C = d\pi$$



Homework

Lilac WSI

Due Thursday