Circumference

1- Find the circumference of these circles:

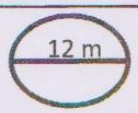
a 

d = 8

$C = \pi \times d$

$= 3.14 \times 8$

$C = 25.12$ cm

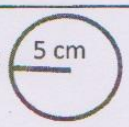
b 

d = 12

$C = \pi \times d$

$= 3.14 \times 12$

$C = 37.68$ m

c 

r = 5

d = 10

$C = \pi \times d$

$= 3.14 \times 10$

$C = 31.4$ cm

2- Find the diameter of these circles:

a. C = 31.4 cm

$d = C \div \pi$

$d = 31.4 \div 3.14$

$d = 10$ cm

b. C = 18.84 m

$d = C \div \pi$

$d = 18.84 \div 3.14$

3- Find the radius of these circles: d = 6 m

a. C = 37.68 cm

$d = C \div \pi$

$= 37.68 \div 3.14$

$d = 6$

$r = 6 \div 2 = 3$ cm

b. C = 28.26 m

$d = C \div \pi$

$= 28.26 \div 3.14$

$d = 9$

$r = 9 \div 2 = 4.5$

r = 4.5 m

3- Maryam is putting an 8-foot diameter circular flower garden in her yard. She will put plastic edging along the flowerbed. How many feet of edging will Maryam need to enclose he flower garden?

$P = 8 \times 3.14$

$P = 25.12$ foot

4- Ahmed has three circle. The largest circle has a diameter of 24 cm. the diameter of the smallest circle is one –third as big as the diameter that is 2 cm greater than diameter of the smallest circle. What is the circumference of each circle.

Circle 1 : 24 cm

Circle 2 : $\frac{1}{3} \times 24 = 8$ cm

Circle 3 : $8 + 2 = 10$ cm

Circle 1 : $C_1 = \pi \times d$

$= 3.14 \times 24$

$C_1 = 75.36$ cm

Circle 2 : $C_2 = \pi \times d$

$= 3.14 \times 8$

$C_2 = 25.12$ cm

Circle 3 : $C_3 = \pi \times d$

$= 3.14 \times 10$

$= 31.4$ cm