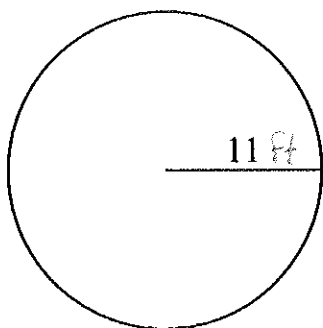


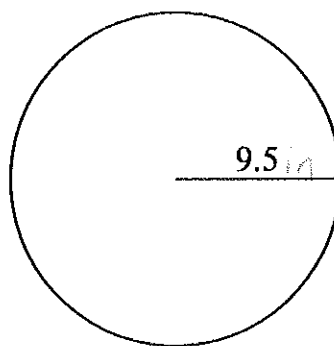
CIRCLES

Find the circumference and area of the circles. Use 3.14 for π . You may use a calculator, but you must show the formula and your work.

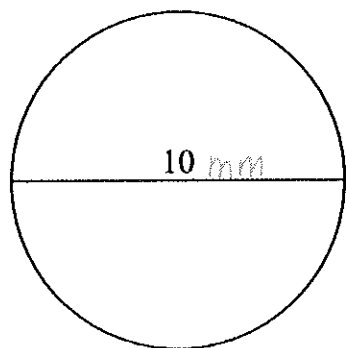
A 1)



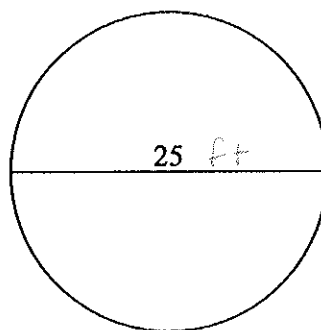
A, B 2)



A 3)



A, B 4)



A, B, C

5) The circumference of a circle is 36.31 meters. What is the approximate length of the radius?

A. 3 m

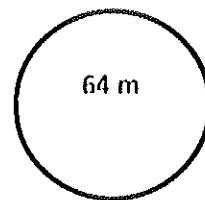
B. 4 m

C. 5 m

D. 6 m

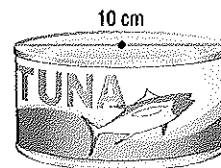
A, B, C

6) An architect is making a plan for a new circular playground. If the picture below is the playground, how much fencing needs to go up to keep the kids in the circle?



A

7) Determine the length of this can's label.



B, C

8) Determine the length of this can's label?



B, C

9) The outside radius of a truck tire is 11 inches.

Approximately how far will the truck have traveled after 3 rotations of these tires?

A, B, C

10) A dinner plate has a radius of 6 cm. What is the area?

B, C

11) The distance around the wheel of a truck is 9.42 feet.
What is the diameter of the wheel?

B, C, Acc

12) A lawn sprinkler sprays water 5 feet in every direction as it rotates. What is the area of the sprinkled lawn?

A, B, C, Acc

13) What is the circumference of a 12 inch pizza?

B, C, Acc

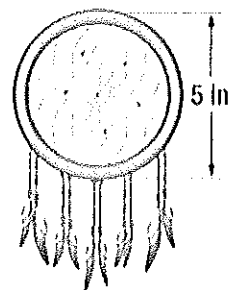
14) Which measure is closest to the circumference of the dreamcatcher shown below?

A. 7.9 in.

B. 15.7 in.

C. 4.1 in.

D. 2.8 in.

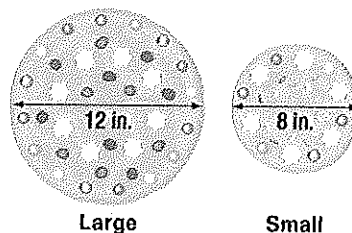


▲ C, Acc

15) Find the diameter of a circle if its area is 706.9 square millimeters.

C, Acc

16) Johnny is baking giant cookies for the school bake sale. They will be sold for \$20 for one large cookie or \$20 for three smaller cookies. Which offer is the better buy? Explain your reasoning.



C, Acc

17) During a construction project, barriers are placed around trees. For each inch of trunk diameter, the protection zone should have a radius of $1\frac{1}{2}$ feet. Find the area of this zone for a tree with a trunk circumference of 63 inches.

