Quizizz

MATH 7: Area and Circumference

Name : _____

Class : _____

Date : _____

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1. A line that goes from one end of the circle to the other and crosses the center point.

    ☐ a)   center   ☐ b)   diameter

    ☐ c)   chord   ☐ d)   radius
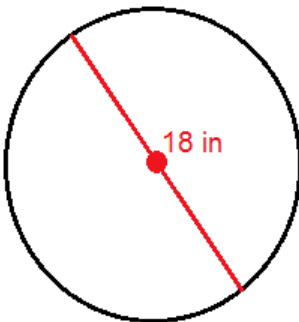
2. What is the formula for area of a circle?

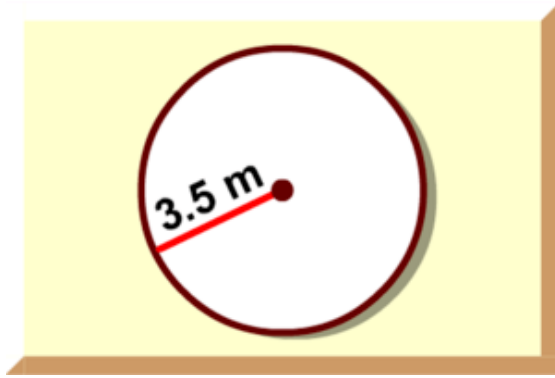   ☐ a) $A = \pi \times r^2$ ☐ b) $A = 2 \times \pi \times r$

3. Which formulas can be used to find Circumference?

    ☐ a) $C = \pi \times r^2$ ☐ b) $C = 2 \times \pi \times r$

    ☐ c) $C = \pi d$

4. What is the radius of this circle?

    ☐ a)   18 in   ☐ b)   10 in
    ☐ c)   9 in   ☐ d)   8 in
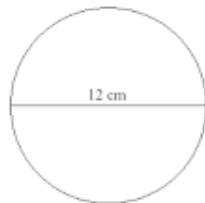
5.   What is the diameter of this circle?
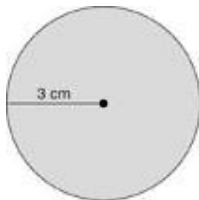

☐ a)   3.5 m   ☐ b)   3 m

☐ c)   5 m   ☐ d)   7 m

6.   What is the circumference of this circle ?

☐ a)   3.14 cm   ☐ b)   37.68 cm

☐ c)   24 cm   ☐ d)   68.4 cm

7.   Find the area of the circle below.

☐ a)   100 cm²   ☐ b)   225 cm²
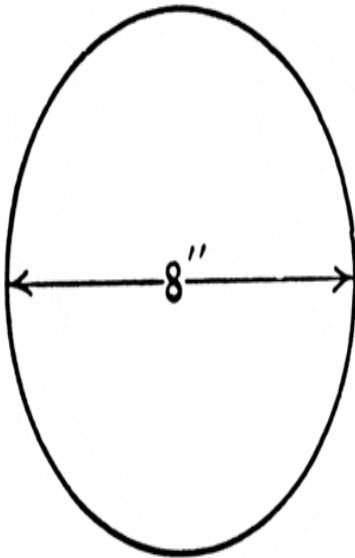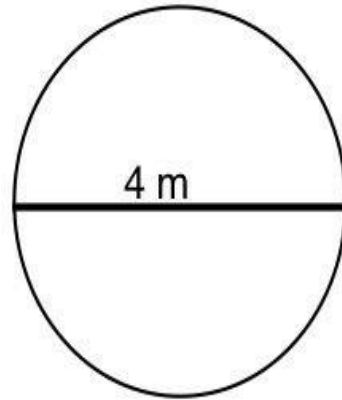
☐ c)   9 cm²   ☐ d)   28.26 cm²

8. Refer to the figures shown below. Which figures have the same area? Select all that apply.

☐ a)

☐ b)

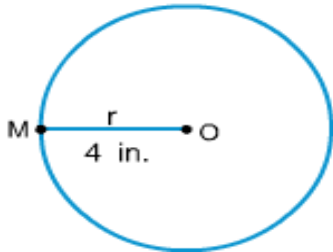$8''$

4 m

☐ c)

☐ d)

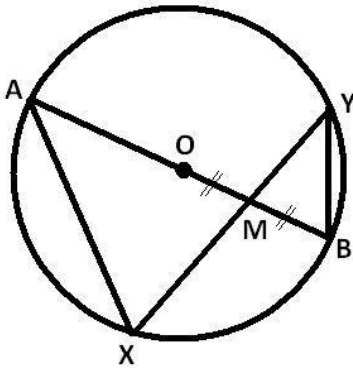M •————r————• O
      4 in.

4 cm.

9. A circle with a center at point *O* is shown. Determine which statement is FALSE.

☐ a) $\overline{OM}$ is a radius of the circle.

☐ b) $\overline{AB}$ is a diameter of the circle.

☐ c) To find the circumference, multiply the length line segment OB of by π

☐ d) None of the above

10. A window that is in the shape of a semicircle has a diameter of 28 inches. Find the area of the window. Round to the nearest tenth.

☐ a) $307.7\ in^2$

☐ b) $615.44\ in^2$

☐ c) $307.72\ in^2$

☐ d) $307.70\ in^2$

11. In a circle, which pair would have the same area?

☐ a)   d = 5 cm and r = 10 m

☐ b)   d = 24 ft and r = 12 in

☐ c)   d = 5" and r = 2.5 ft

☐ d)   d = 12" and r = 6 in

12. Pi (π) is the constant ratio of the _____ of the circle to its _____.

☐ a)   diameter (d); circumference(C)

☐ b)   radius (r) ; diameter(d)

☐ c)   diameter (d) ; radius (r)

☐ d)   circumference (C); diameter (d)

13. True or False? All chords are diameters.

☐ a)   True

☐ b)   False

14. The radius of circle is 3.5' . Find the area. Select ALL correct answers. (Hint: Pay attention to measurement used on 3.5)

☐ a)   A = 12.25π square feet

☐ b) $A = 12.25\ in^2$

☐ c) $A = 38.465\ ft^2$

☐ d)   A = 38.465 in

Answer Key

1. b
2. a
3. b,c
4. c
5. d
6. b
7. d
8. a,c
9. a,c
10. a
11. d
12. d
13. b
14. a,c