socrative
A showbie PRODUCT

Name _____
Date _____

Circles Quiz

Score _____

1. The formula for the *diameter of a circle* (using radius) is **d=2r.**

(T) True

(F) False

$$d = 2r$$

2. The formula for the *diameter of a circle* (using circumference) is **d=C/π.**

(T) True

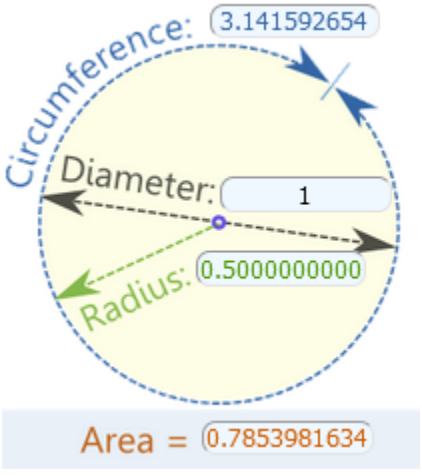
(F) False

$$d = \frac{C}{\pi}$$

3. The formula for the *circumference of a circle* (using radius) is **C=2r**

(T) True

(F) False



4.

$$\frac{\text{Circumference}}{\text{Diameter}} = \pi = 3.14159...$$

The formula for the *radius of a circle* (using circumference) is **r=C/2π**

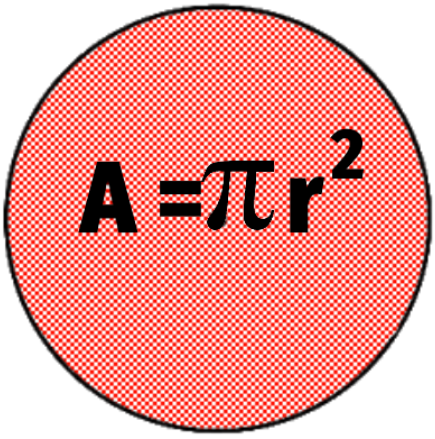
(T) True

(F) False

5. The formula for the *area of a circle* is **$A=\pi r^2$.**

(T) True

(F) False



6. True or False: No matter what point on a circle you choose, it's always the same distance away from the centre of the circle.

(T) True

(F) False

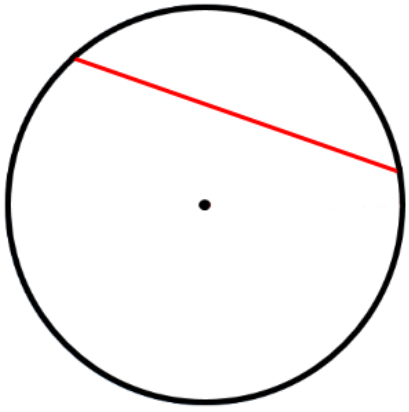
7. This line is a...

(A) Diameter

(B) Chord

(C) Secant

(D) Tangent



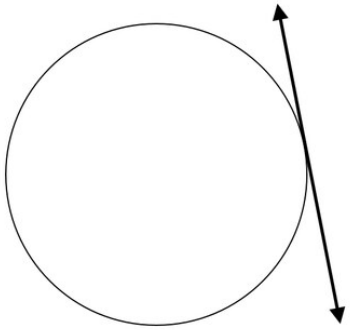
8. This line is a...

(A) Tangent

(B) Secant

(C) Chord

(D) Diameter



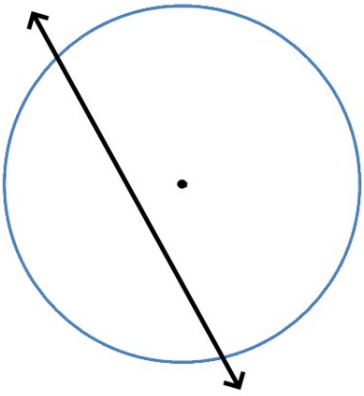
9. This line is a...

(A) Tangent

(B) Secant

(C) Chord

(D) Diameter



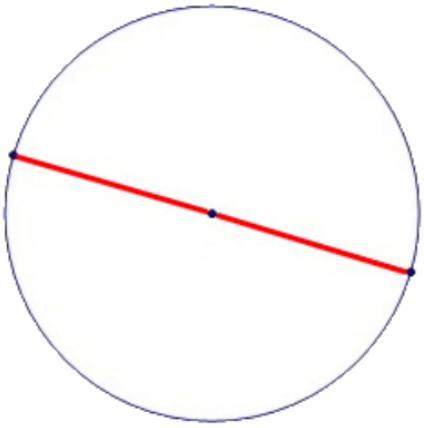
10. This line is a...

(A) Tangent

(B) Chord

(C) Diameter

(D) Radius



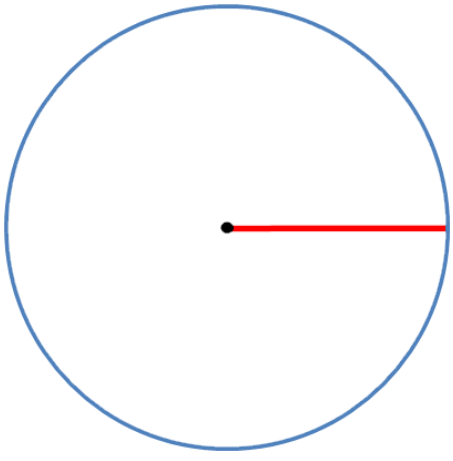
11. This line is a...

(A) Tangent

(B) Chord

(C) Diameter

(D) Radius



12. What is the ratio of a circle's *circumference* divided by it's *diameter* equal to?

$$\frac{C}{d} = ?$$

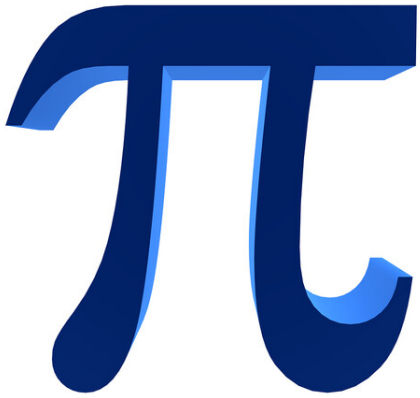
(A) The radius

(B) The area

(C) π

(D) It depends on the values of C and d.

13. The value of pi is approximately what?



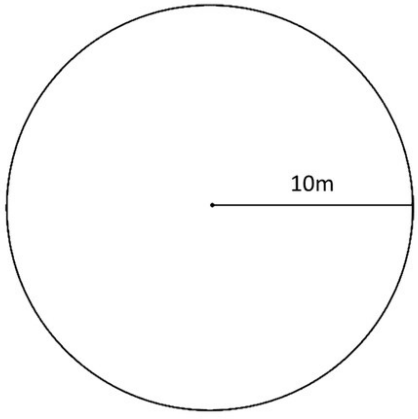
(A) Whatever the radius of the circle is

(B) 1.34

(C) 3.14

(D) 4.13

14. A circle has a *radius* of 10m. What is the <u>diameter</u>?



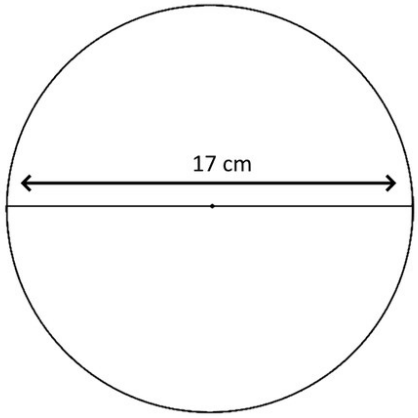
(A) 5.0 m

(B) 10.0 m

(C) 20.0 m

(D) 31.4 m

15. A circle has a *diameter* of 17cm. What is the <u>radius</u>?



(A) 8.5 cm

(B) 17.0 cm

(C) 26.7 cm

(D) 53.4 cm

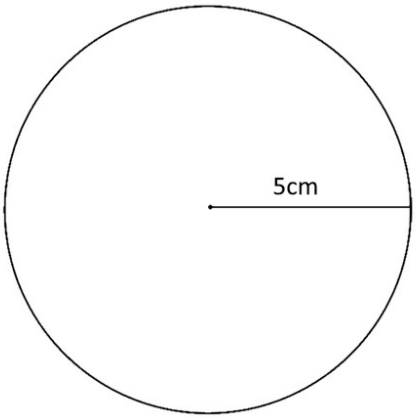
16. A circle has a *radius* of 5cm. What is the circumference?

(A) 78.5 cm

(B) 31.4 cm

(C) 15.7 cm

(D) 7.8 cm



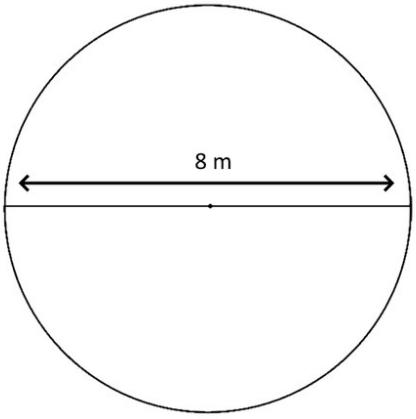
17. A circle has a *diameter* of 8m. What is the circumference?

(A) 25.1 m

(B) 12.6 m

(C) 50.3 m

(D) 201.1 m



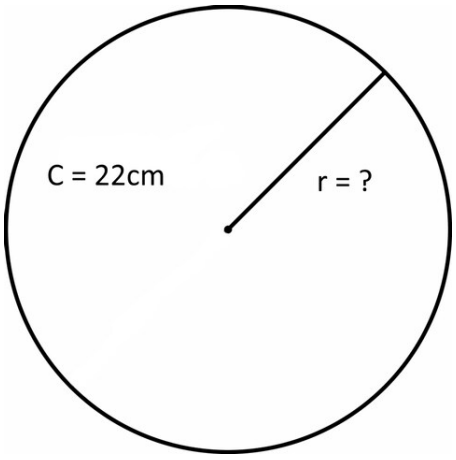
18. A circle has a *circumference* of 22cm. What is the radius?

(A) 3.50 cm

(B) 7.01 cm

(C) 11.00 cm

(D) 11.00 mm



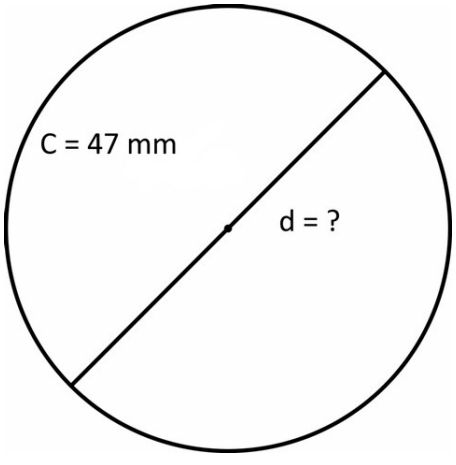
19. A circle has a *circumference* of 47mm. What is the diameter?

(A) 3.87 mm

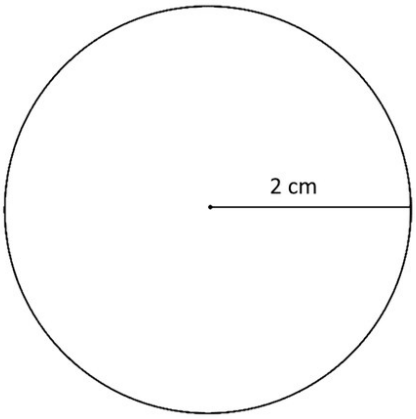
(B) 7.48 mm

(C) 14.97 mm

(D) 23.50 mm



20. The following circle has a *radius* of 2cm. What is the area?



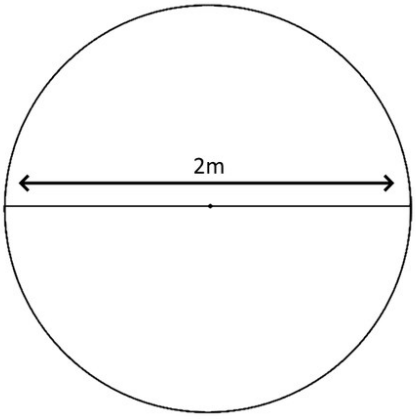
(A) 3.1 cm^2

(B) 6.3 cm^2

(C) 12.6 cm^2

(D) 50.3 cm^2

21. The following circle has a *diameter* of 2m. What is the area?



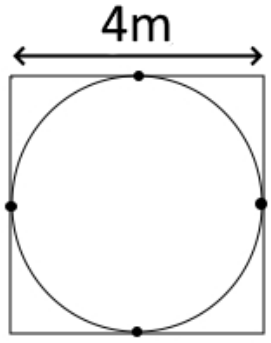
(A) 2 m^2

(B) 3.1 m^2

(C) 6.3 m^2

(D) 12.6 m^2

22. A circle is inscribed within a square. The square's side length = 4m. The edge of the circle touches the midpoint of the sides of the square. What is the area of the circle?



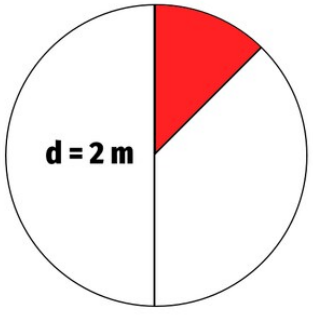
(A) 6.3 m^2

(B) 12.6 m^2

(C) 25.1 m^2

(D) 50.3 m^2

23. The following circle has a *diameter* of 2m. The shaded sector is one eighth (1/8) of the circle. What is the the area of the sector?



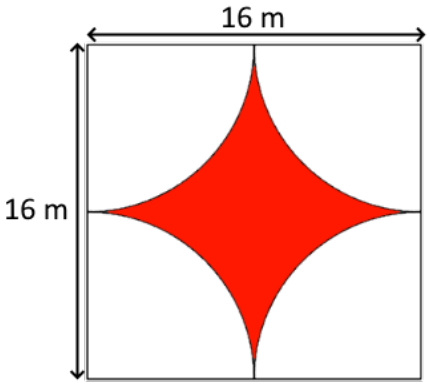
(A) 0.39 m^2

(B) 0.78 m^2

(C) 1.00 m^2

(D) 3.14 m^2

24. The following picture shows four quarter circles within a square of side length 16m. What is the perimeter of the red section in the picture?



(A) 12.57 m

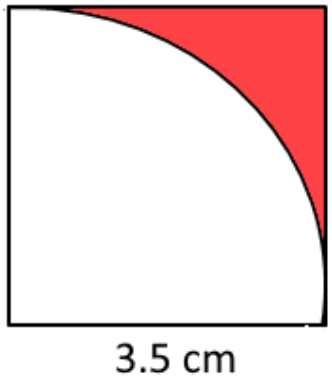
(B) 25.13 m

(C) 50.26 m

(D) 54.94 m

(E) 100.53 m

25. The following picture shows a quarter circle within a square of side length 3.5cm. What is the area of the red section of that shape?



(A) 1.62 cm^2

(B) 2.63 cm^2

(C) 9.62 cm^2

(D) 9.84 cm^2

(E) 12.25 cm^2