socrative

Student
FITCH4008
January 27, 2021

Circles Quiz

100% (25/25)

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

- T True
- F False

$$d = 2r$$

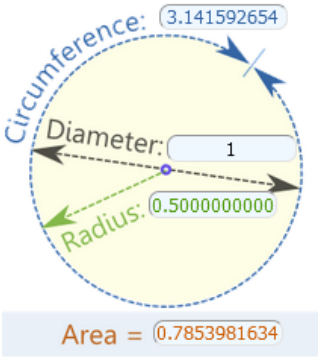
✓ **2.** The formula for the *diameter of a circle* (using circumference) is **d=C/π.**

- T True
- F False

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

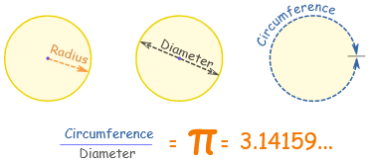
✓ **3.** The formula for the *circumference of a circle* (using radius) is **C=2r**

- T True
- F False

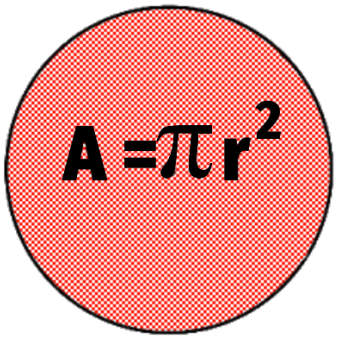


✓ **4.** The formula for the *radius of a circle* (using circumference) is **r=C/2π**

- T True
- F False



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

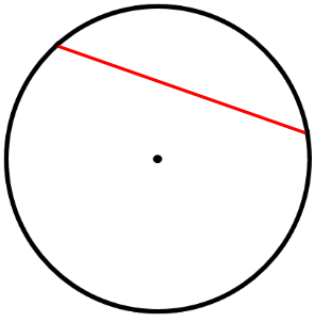


- T True
- F False

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.

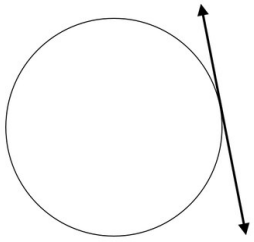
- T True
- F False

7. This line is a...



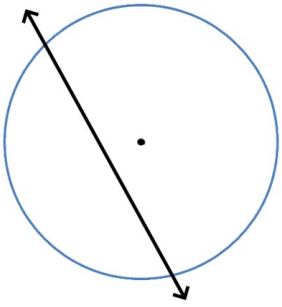
- A Diameter
- B Chord
- C Secant
- D Tangent

8. This line is a...



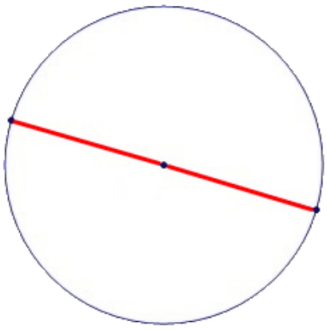
- A Tangent
- B Secant
- C Chord
- D Diameter

9. This line is a...



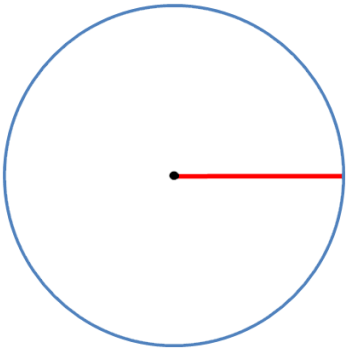
- A Tangent
- B Secant
- C Chord
- D Diameter

10. This line is a...



- A Tangent
- B Chord
- C Diameter
- D Radius

11. This line is a...



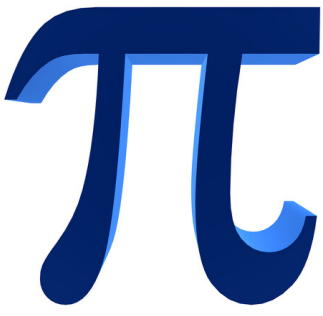
- A Tangent
- B Chord
- C Diameter
- D Radius

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

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

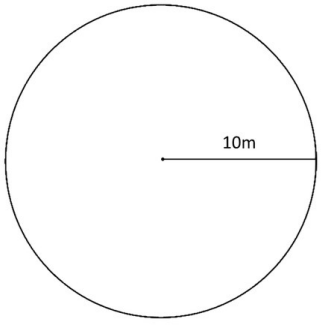
- A The radius
- B The area
- C π
- D It depends on the values of C and d.

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

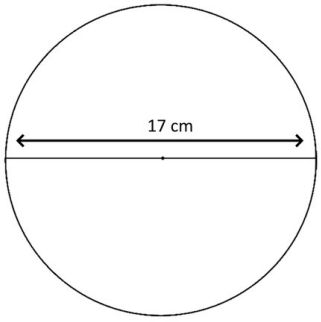
14. A circle has a *radius* of 10m. What is the diameter?



- A 5.0 m
- B 10.0 m
- C 20.0 m
- D 31.4 m

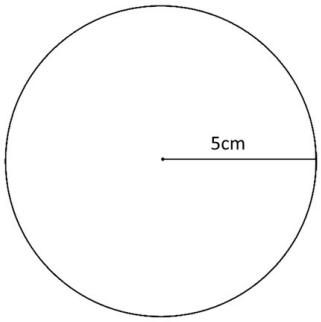
15. A circle has a *diameter* of 17cm. What is the radius?

- **A** 8.5 cm
- **B** 17.0 cm
- **C** 26.7 cm
- **D** 53.4 cm



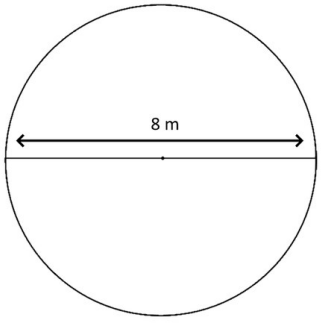
16. A circle has a *radius* of 5cm. What is the circumference?

- **A** 78.5 cm
- **B** 31.4 cm
- **C** 15.7 cm
- **D** 7.8 cm



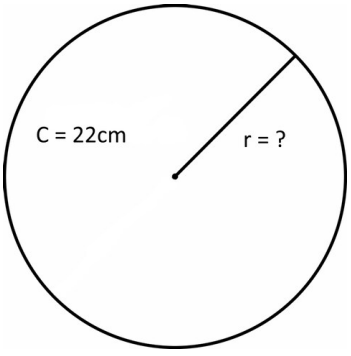
17. A circle has a *diameter* of 8m. What is the circumference?

- **A** 25.1 m
- **B** 12.6 m
- **C** 50.3 m
- **D** 201.1 m



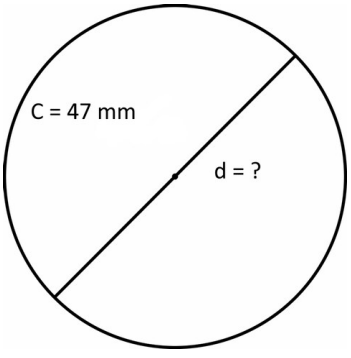
18. A circle has a *circumference* of 22cm. What is the radius?

- **A** 3.50 cm
- **B** 7.01 cm
- **C** 11.00 cm
- **D** 11.00 mm

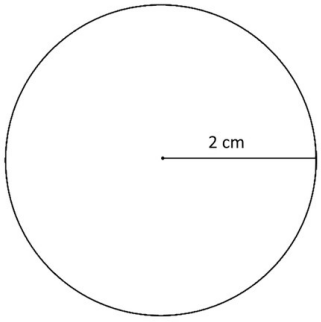


19. A circle has a *circumference* of 47mm. What is the diameter?

- **A** 3.87 mm
- **B** 7.48 mm
- **C** 14.97 mm
- **D** 23.50 mm

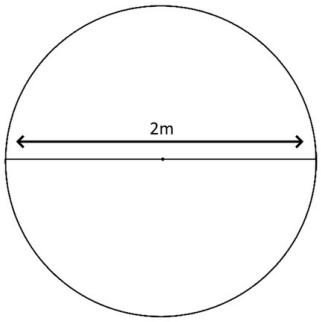


20. The following circle has a *radius* of 2cm. What is the area?



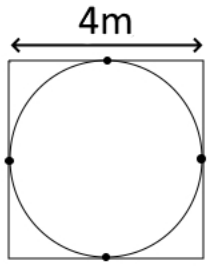
- A $3.1\ cm^2$
- B $6.3\ cm^2$
- C $12.6\ cm^2$
- D $50.3\ cm^2$

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



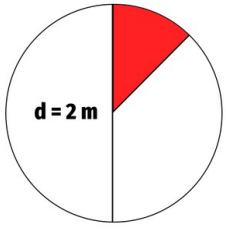
- A $2\ m^2$
- B $3.1\ m^2$
- C $6.3\ m^2$
- D $12.6\ m^2$

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?



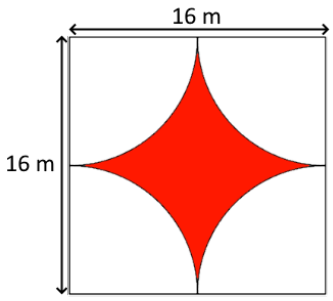
- A $6.3\ m^2$
- B $12.6\ m^2$
- C $25.1\ m^2$
- D $50.3\ m^2$

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?



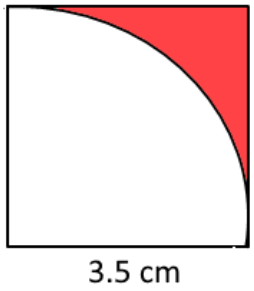
- A $0.39\ m^2$
- B $0.78\ m^2$
- C $1.00\ m^2$
- D $3.14\ m^2$

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