

Diameter and Radius

G-CPI 1

Instructions: In each problem below, calculate either the diameter or the radius from the information given.

- 1 If the diameter of a circle is 8 feet,
What is the radius?

Remember that $r = d \div 2$

$$r = 8 \div 2$$
$$r = 4 \text{ ft}$$

- 2 If the radius of a circle is 3 cm,
What is the diameter?

Remember that $d = r \times 2$

$$d = 3 \times 2$$
$$d = 6 \text{ cm}$$

- 3 If the diameter of a circle is 20 inches,
What is the radius?

- 4 If the radius of a circle is 9 meters,
What is the diameter?

- 5 If the diameter of a circle is 64 cm,
What is the radius?

- 6 If the radius of a circle is 15 yards,
What is the diameter?

- 7 If the diameter of a circle is 86 feet,
What is the radius?

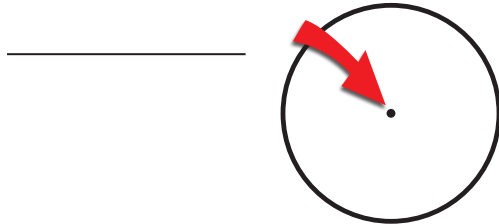
- 8 If the radius of a circle is 16 mm,
What is the diameter?

- 9 If the diameter of a circle is 7 inches,
What is the radius?

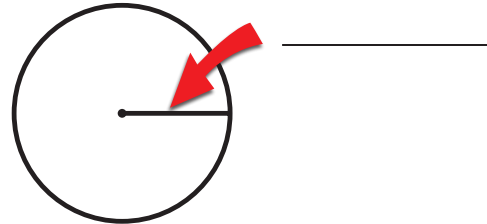
- 10 If the radius of a circle is 2.5 meters,
What is the diameter?

Circles: What is PI?

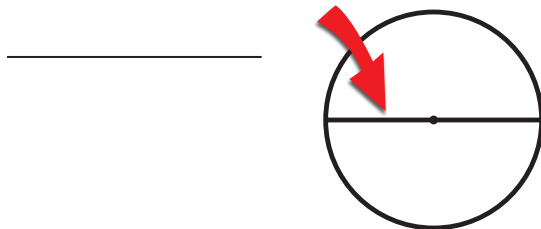
1 What is this part of a circle called?



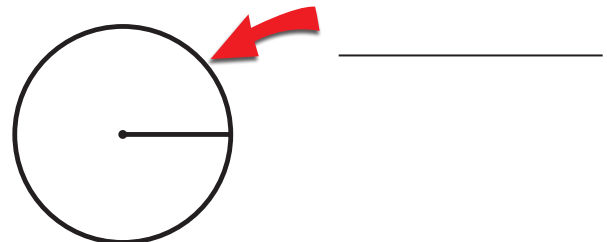
2 What is this part of a circle called?



3 What is this part of a circle called?



4 What is this part of a circle called?



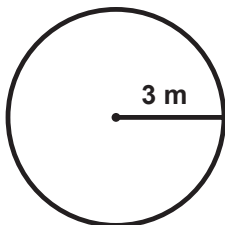
5 Fill in the blanks:

PI is the _____
of a circle's _____
to its _____.

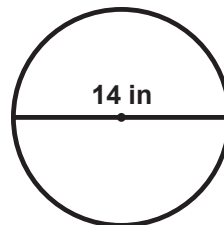
6 What is the numerical value of PI to two decimal places?

$\pi =$ _____

7 If the radius of a circle is 3 meters, what is the circle's diameter?



8 If the diameter of a circle is 14 inches, what is the circle's radius?



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$$r = 4 \text{ ft}$$

- 2 If the radius of a circle is 3 cm,
What is the diameter?

Remember that $d = r \times 2$

$$d = 3 \times 2$$
$$d = 6 \text{ cm}$$

- 3 If the diameter of a circle is 20 inches,
What is the radius?

$$r = 20 \div 2$$
$$r = 10 \text{ in}$$

- 4 If the radius of a circle is 9 meters,
What is the diameter?

$$d = 9 \times 2$$
$$d = 18 \text{ m}$$

- 5 If the diameter of a circle is 64 cm,
What is the radius?

$$r = 64 \div 2$$
$$r = 32 \text{ cm}$$

- 6 If the radius of a circle is 15 yards,
What is the diameter?

$$d = 15 \times 2$$
$$d = 30 \text{ yd}$$

- 7 If the diameter of a circle is 86 feet,
What is the radius?

$$r = 86 \div 2$$
$$r = 43 \text{ ft}$$

- 8 If the radius of a circle is 16 mm,
What is the diameter?

$$d = 16 \times 2$$
$$d = 32 \text{ mm}$$

- 9 If the diameter of a circle is 7 inches,
What is the radius?

$$r = 7 \div 2$$
$$r = 3.5 \text{ in}$$

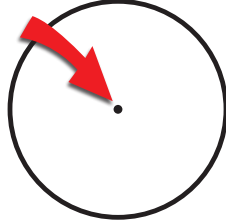
- 10 If the radius of a circle is 2.5 meters,
What is the diameter?

$$d = 2.5 \times 2$$
$$d = 5 \text{ m}$$

Circles: What is PI?

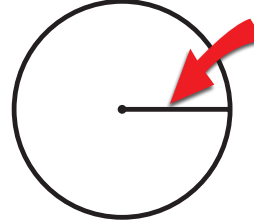
1 What is this part of a circle called?

center
(or origin)



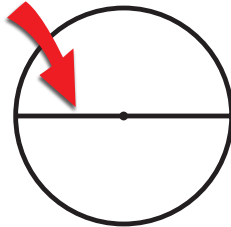
2 What is this part of a circle called?

radius



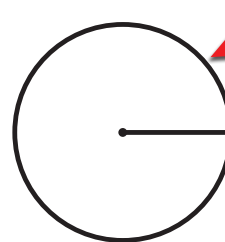
3 What is this part of a circle called?

diameter



4 What is this part of a circle called?

circumference
(or perimeter)



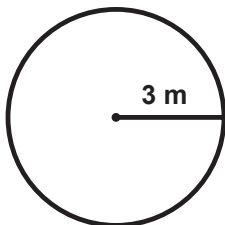
5 Fill in the blanks:

PI is the ratio
of a circle's circumference
to its diameter.

6 What is the numerical value of PI to two decimal places?

$\pi =$ 3.14

7 If the radius of a circle is 3 meters, what is the circle's diameter?

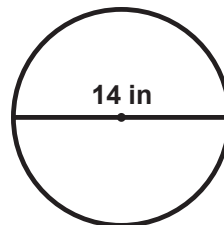


$$d = 2 \times r$$

$$d = 2 \times 3$$

$$d = 6 \text{ meters}$$

8 If the diameter of a circle is 14 inches, what is the circle's radius?



$$r = d \div 2$$

$$r = 14 \div 2$$

$$r = 7 \text{ inches}$$