

04-04-Sample Quiz-Circle Segments**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

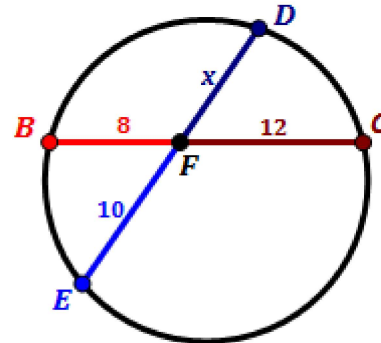
- _____ 1. Consider the following measures of the segments shown in the diagram.

$$\text{BF} = 8 \text{ cm}$$

$$\text{CF} = 12 \text{ cm}$$

$$\text{EF} = 10 \text{ cm}$$

Determine the length of the segment **DF**.



(Figure may not be drawn to scale.)

- a. 6.7 cm c. 10 cm
b. 9.6 cm d. 15 cm

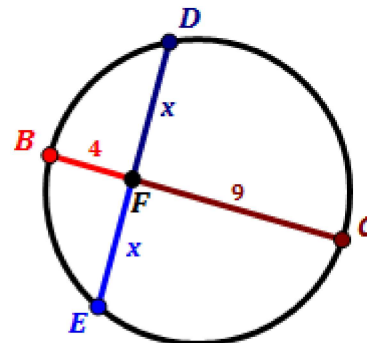
- _____ 2. Consider the following measures of the segments shown in the diagram.

$$\text{BF} = 9 \text{ cm}$$

$$\text{CF} = 4 \text{ cm}$$

$$\text{DF} = \text{EF}$$

Determine the length of the segment **DF**.



(Figure may not be drawn to scale.)

- a. 6 cm c. 5 cm
b. 6.5 cm d. 5.5 cm

3.

Consider the following measures of the segments shown in the diagram.

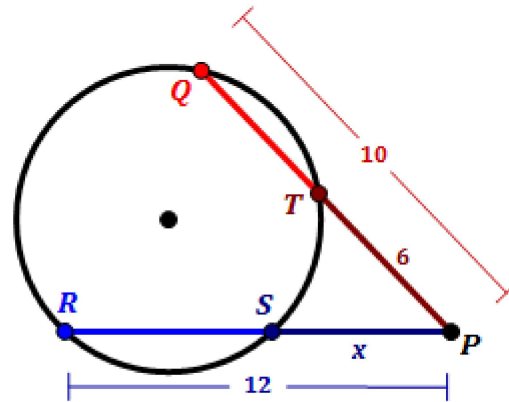
$$PR = 12 \text{ cm}$$

$$PT = 6 \text{ cm}$$

$$PQ = 10 \text{ cm}$$

(Figure may not be drawn to scale)

Determine the length of the segment **PS**.



a. 4 cm

b. 5 cm

c. 6 cm

d. 7.2 cm

4.

Consider the following measures of the segments shown in the diagram.

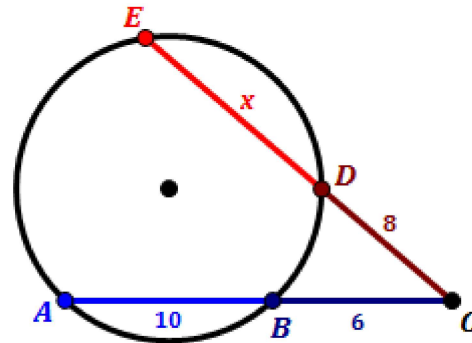
$$BC = 6 \text{ cm}$$

$$AB = 10 \text{ cm}$$

$$CD = 8 \text{ cm}$$

(Figure may not be drawn to scale)

Determine the length of the segment **ED**.



a. 4.0 cm

b. 4.8 cm

c. 7.5 cm

d. 13.3 cm

5.

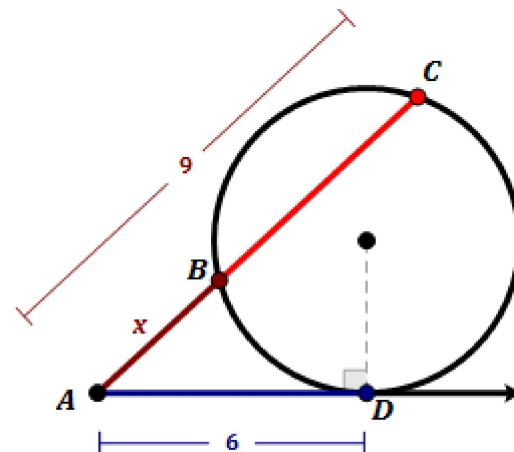
Consider the following measures of the segments shown in the diagram.

$$AD = 6 \text{ cm}$$

$$AC = 9 \text{ cm}$$

(Figure may not be drawn to scale)

Determine the length of the segment **AB**.



a. 3 cm

b. 4 cm

c. 4.5 cm

d. 5 cm

Name: _____

ID: A

6.

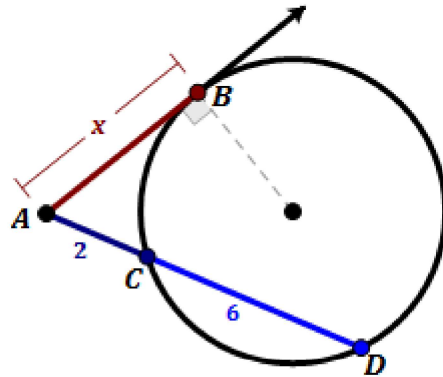
Consider the following measures of the segments shown in the diagram.

$$AC = 2 \text{ cm}$$

$$CD = 6 \text{ cm}$$

(Figure may not be drawn to scale)

Determine the length of the segment **AB**.



a. 3 cm

b. 3.46 cm

c. 4 cm

d. 4.23 cm

7.

Consider the following measures of the segments shown in the diagram.

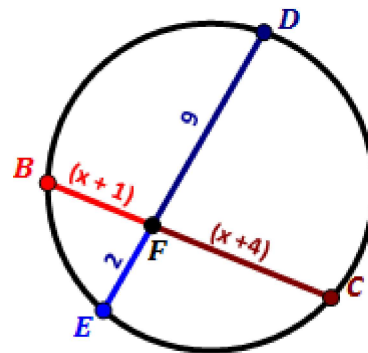
$$BF = (x + 1) \text{ cm}$$

$$CF = (x + 4) \text{ cm}$$

$$EF = 2 \text{ cm}$$

$$DF = 9 \text{ cm}$$

Determine the most appropriate value for x .



(Figure may not be drawn to scale.)

a. $x = 1$

b. $x = 2$

c. $x = 5$

d. $x = 7$