

Ficha Circunferência

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1.

$$\widehat{OCA} = 28^\circ$$

$$\widehat{COA} = 180^\circ - 2(28^\circ) = 180^\circ - 56^\circ = 124^\circ$$

$$\widehat{CBA} = \frac{124^\circ}{2} = 62^\circ$$

R: 62° .

2.

$$\widehat{CDE} = \frac{180^\circ - 70^\circ}{2} = 55^\circ$$

$$\widehat{CED} = 55^\circ$$

$$\text{ArcoBC} = \frac{50^\circ}{2} = 25^\circ$$

$$\text{ArcoBD} = 55^\circ \cdot 2 - 25^\circ = 110^\circ - 25^\circ = 85^\circ$$

R: 85° .

3.

$$180^\circ - 100^\circ = 80^\circ$$

$$\text{ArcoBA} = 80^\circ \cdot 2 = 160^\circ$$

$$\text{ArcoBCA} = 360^\circ - 160^\circ = 200^\circ$$

R: 200° .

4.

$$\hat{BCE} = \frac{60^\circ}{2} = 30^\circ$$

$$\hat{CBE} = 180^\circ - 30^\circ - 90^\circ = 60^\circ$$

$$\text{ArcoCD} = 60^\circ \cdot 2 = 120^\circ$$

R: B.

5.

$$\hat{DBC} = \frac{110^\circ}{2} = 55^\circ$$

$$\hat{DCB} = \hat{DBC}$$

$$\hat{BDC} = 180^\circ - 2(55^\circ) = 180^\circ - 110^\circ = 70^\circ$$

R: A.

6.

$$\text{ArcoCB} \equiv \text{ArcoBA} \equiv \text{ArcoAE} \equiv \text{ArcoDE} \equiv \text{ArcoDC}$$

$$\text{ArcoCB} = \frac{360^\circ}{2} = 72^\circ$$

$$\hat{CAJ} \equiv \hat{ACJ}$$

$$\hat{CAJ} = 180^\circ - 2(36^\circ) = 180^\circ - 72^\circ = 108^\circ$$

R: CJA tem 108° de amplitude.

7.

$$\hat{DEA} = 130^\circ$$

$$\text{ArcoCD} = 180^\circ - 130^\circ = 50^\circ$$

$$\hat{DEC} = \frac{50^\circ}{2} = 25^\circ$$

R: DEC tem 25° de amplitude.

8.

$$\hat{BCA} = 30^\circ$$

$$\text{ArcoBA} = 5 \text{ cm}$$

$$\text{ArcoBA} = 30^\circ \cdot 2 = 60^\circ$$

$$\frac{60^\circ}{5 \text{ cm}} = \frac{360^\circ}{x}$$

$$60x = 5 \cdot 360^\circ \equiv 60x = 1800 \equiv x = \frac{1800^\circ}{60} \equiv x = 30 \text{ cm}$$

$$p = 30 \text{ cm} + 5 \text{ cm}$$

R: 35 cm.

9.

$$\text{ArcoAD} = 110^\circ$$

$$\text{ArcoAC} = 360^\circ - 220^\circ = 140^\circ$$

$$\hat{ADC} = \frac{140^\circ}{2} = 70^\circ$$

R: 70°.

10.

$$\hat{ACB} = \frac{110^\circ}{2} = 55^\circ$$

$$\hat{ABC} = 85^\circ$$

$$\hat{CAB} = 40^\circ$$

R: 40°.

11.

$$\text{ArcoAD} = 180^\circ - 110^\circ = 70^\circ$$

$$\hat{ACD} = \frac{70^\circ}{2} = 35^\circ$$

$$\hat{CBA} = 180^\circ - 35^\circ - 25^\circ = 120^\circ$$

R: 120°.

12.

$$E\hat{O}B = 180^\circ - 72^\circ = 108^\circ$$

$$D\hat{B}A = \frac{56^\circ}{2} = 28^\circ$$

$$E\hat{O}B = 180 - 28^\circ - 108^\circ = 44^\circ$$

R:44°.