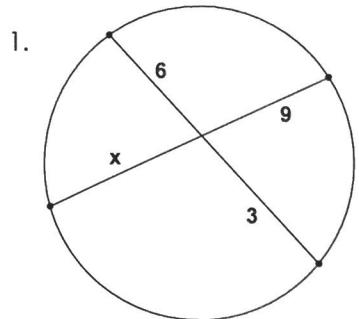


Skills Practice

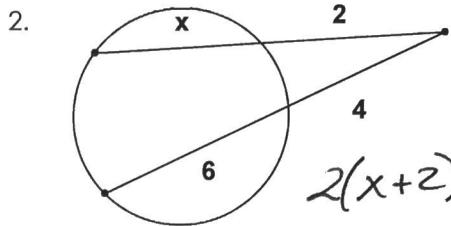
Find the value of the missing variable.



$$6(3) = 9(x)$$

$$\frac{18}{9} = \frac{9x}{9}$$

$$2 = x$$



$$2(x+2) = 4(6+4)$$

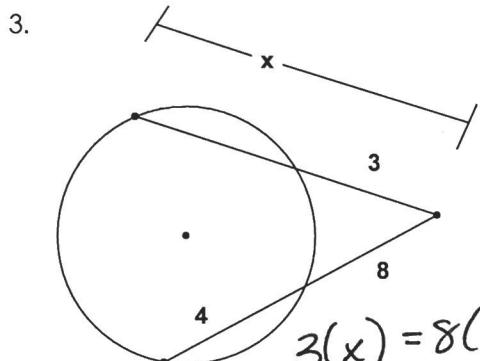
$$2x+4 = 24+16$$

$$2x+4 = 40$$

$$\underline{-4 \qquad -4}$$

$$2x = 38$$

$$x = 19$$

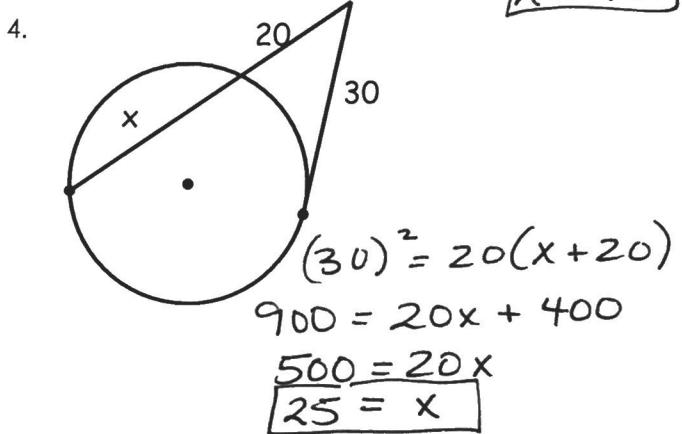


$$3(x) = 8(4+8)$$

$$3x = 32+64$$

$$3x = 96$$

$$x = 32$$

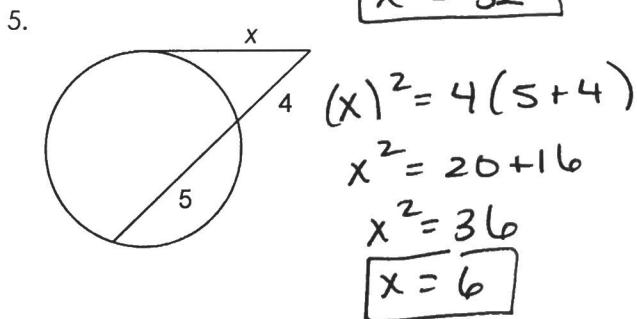


$$(30)^2 = 20(x+20)$$

$$900 = 20x + 400$$

$$\frac{500}{20} = \frac{20x}{20}$$

$$25 = x$$

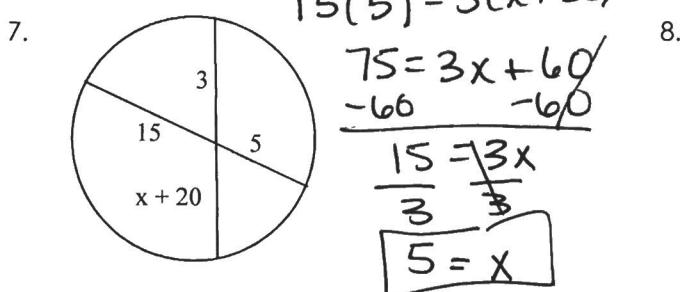
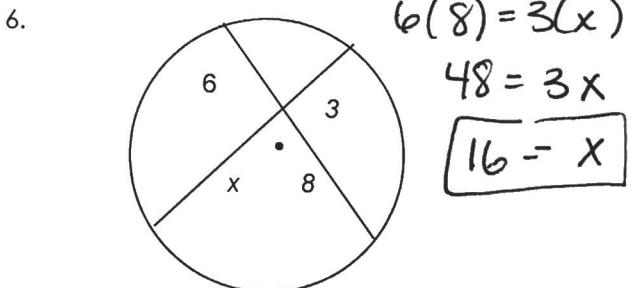


$$(x)^2 = 4(5+4)$$

$$x^2 = 20+16$$

$$x^2 = 36$$

$$x = 6$$

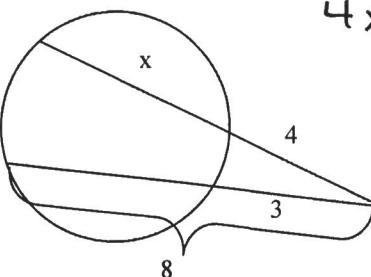


$$15(5) = 3(x+20)$$

$$75 = 3x + 60$$

$$\frac{-60}{3} = \frac{3x}{3}$$

$$5 = x$$

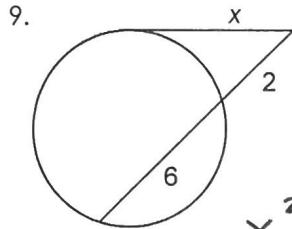


$$4(x+4) = 3(8)$$

$$4x+16 = 24$$

$$\frac{4x}{4} = \frac{8}{4}$$

$$x = 2$$

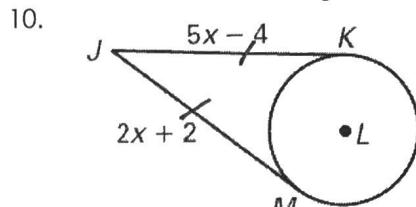


$$x^2 = 2(6+2)$$

$$x^2 = 2(8)$$

$$x^2 = 16$$

$$\boxed{x = 4}$$



$$5x - 4 = 2x + 2$$

$$\frac{-2x}{-2x}$$

$$\frac{3x - 4}{3x - 4} = \frac{2}{2}$$

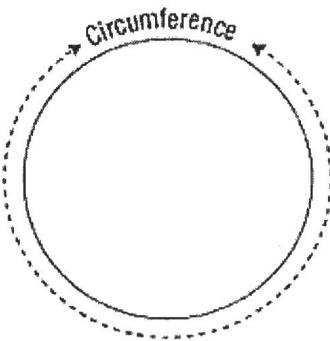
$$\frac{3x}{3} = \frac{6}{6}$$

$$\boxed{x = 2}$$

↓ Surprise tangent question 😊

Arc Length

In 7th grade, you learned how to calculate the circumference of a circle. You also learned that the circumference of a circle divided by the diameter is equal to pi. The circumference of a circle is the distance around the circle.



Circumference

$$C = 2\pi r \quad \text{or} \quad C = \pi d$$

Practice reviewing how to calculate the circumference or radius/diameter of a circle below. Leave your answers in terms of pi. Find the circumference, radius, or diameter.

A. $r = 6 \text{ ft}$

B. $d = 15 \text{ in}$

C. $C = 16\pi \text{ cm}$

D. $C = 40\pi \text{ m}$