

# **CHAPTER 11** **Solutions Key** **Circles**

## **ARE YOU READY? PAGE 743**

1. C
2. E
3. B
4. A
5. total # of students =  $192 + 208 + 216 + 184 = 800$   
 $\left(\frac{192}{800}\right) \cdot 100\% = 24\%$
6.  $\frac{216}{800} \cdot 100\% = 27\%$
7.  $\frac{208 + 216}{800} \cdot 100\% = 53\%$
8.  $11\%(400,000) = 44,000$
9.  $27\%(400,000) = 108,000$
10.  $19\% + 13\% = 32\%$
11.  $32\%(400,000) = 128,000$
12.  $11y - 8 = 8y + 1$   
 $3y - 8 = 1$   
 $3y = 9$   
 $y = 3$
13.  $12x + 32 = 10 + x$   
 $11x + 32 = 10$   
 $11x = -22$   
 $x = -2$
14.  $x + 30 = 10x - 15$   
 $30 = 9x - 15$   
 $45 = 9x$   
 $x = 5$
15.  $4y + 18 = 10y + 15$   
 $18 = 6y + 15$   
 $3 = 6y$   
 $y = \frac{1}{2}$
16.  $-2x - 16 = x + 6$   
 $-16 = 3x + 6$   
 $-22 = 3x$   
 $x = -\frac{22}{3}$
17.  $-2x - 11 = -3x - 1$   
 $x - 11 = -1$   
 $x = 10$
18.  $17 = x^2 - 32$   
 $49 = x^2$   
 $x = \pm 7$
19.  $2 + y^2 = 18$   
 $y^2 = 16$   
 $y = \pm 4$
20.  $4x^2 + 12 = 7x^2$   
 $12 = 3x^2$   
 $4 = x^2$   
 $x = \pm 2$
21.  $188 - 6x^2 = 38$   
 $-6x^2 = -150$   
 $x^2 = 25$   
 $x = \pm 5$

## **11-1 LINES THAT INTERSECT CIRCLES, PAGES 746-754**

### **CHECK IT OUT! PAGES 747-750**

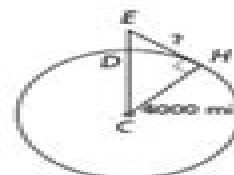
1. chords:  $\overline{QR}$ ,  $\overline{ST}$ ; tangent:  $\overline{UV}$ ; radii:  $\overline{PQ}$ ,  $\overline{PS}$ ,  $\overline{PT}$ ; secant:  $\overline{ST}$ ; diameter:  $\overline{ST}$
2. radius of circle C:  $3 - 2 = 1$   
radius of circle D:  $5 - 2 = 3$   
point of tangency:  $(2, -1)$   
equation of tangent line:  $y = -1$

### **3. 1 Understand the Problem**

The answer will be the length of an imaginary segment from the summit of Mt. Kilimanjaro to the Earth's horizon.

### **2 Make a Plan**

Let  $C$  be the center of the Earth,  $E$  be the summit of Mt. Kilimanjaro, and  $H$  be a point on the horizon. Find the length of  $\overline{EH}$ , which is tangent to circle  $C$  at  $H$ . By Thm. 11-1-1,  $\overline{EH} \perp \overline{CH}$ . So  $\triangle CHE$  is a right  $\triangle$ .



### **3 Solve**

$$\begin{aligned} ED &= 19,340 \text{ ft} \\ &= \frac{19,340}{5280} \approx 3.66 \text{ mi} \\ EC &= CD + ED \\ &= 4000 + 3.66 = 4003.66 \text{ mi} \\ EC^2 &= EH^2 + CH^2 \\ 4003.66^2 &= EH^2 + 4000^2 \\ 29,283.40 &= EH^2 \\ 171 \text{ mi} &\approx EH \end{aligned}$$

### **4 Look Back**

The problem asks for the distance to the nearest mile. Check that the answer is reasonable by using the Pythagorean Thm. Is  $171^2 + 4000^2 \approx 4003.66^2$ ? Yes,  $16,029,241 \approx 16,032,016$ .

### **4a. By Thm. 11-1-3,**

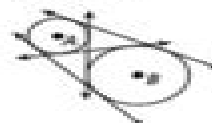
$$\begin{aligned} RS &= RT \\ \frac{x}{2} &= x - 6.3 \\ x &= 4x - 25.2 \\ -3x &= -25.2 \\ x &= 8.4 \\ RS &= \frac{(8.4)}{2} = 2.1 \end{aligned}$$

### **b. By Thm. 11-1-3,**

$$\begin{aligned} RS &= RT \\ n + 3 &= 2n - 1 \\ 3 &= n - 1 \\ 4 &= n \\ RS &= (4) + 3 = 7 \end{aligned}$$

## **THINK AND DISCUSS, PAGE 750**

1. 4 lines



2. No; if line is tangent to the circle with the larger radius, it will not intersect the circle with the smaller radius. If the line is tangent to the circle with the smaller radius, it will intersect the circle with the larger radius at 2 points.
3. No; a circle consists only of those points which are a given distance from the center.
4. By Thm. 11-1-1,  $m\angle PQR = 90^\circ$ . So by Triangle Sum Theorem  $m\angle PRQ = 180 - (90 + 59) = 31^\circ$ .

# Holt Geometry 15 Answers

**Ian Pickup**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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