

HW Circles (Answers)

1) $C = \pi d$ $r = 4.5, d = 9$

$$C = \pi(9)$$

$$C = 3.14(9)$$

$$C = 28.26$$

$$C = 28.3 \text{ m}$$

2) $C = \pi d$ $r = 5, d = 10$

$$C = \pi(10)$$

$$C = (3.14)(10)$$

$$C = 31.4 \text{ cm}$$

3) $C = \pi d$ $r = 14, d = 28$

$$C = \pi(28)$$

$$C = (3.14)(28)$$

$$C = 87.92$$

$$C = 88.0 \text{ in}$$

4) $C = \pi d$ $d = 30.2$

$$C = \pi(30.2)$$

$$C = (3.14)(30.2)$$

$$C = 94.82$$

$$C = 94.8$$

5) $C = \pi d$ $d = 16.8$

$$C = \pi(16.8)$$

$$C = (3.14)(16.8)$$

$$C = 52.752$$

$$C = 52.8 \text{ cm}$$

6) $C = \pi d$ $d = 26$

$$C = \pi(26)$$

$$C = (3.14)(26)$$

$$C = 81.64$$

$$C = 81.6 \text{ cm}$$

7) $C = \pi d$ $r = 12, d = 24$

$$C = \pi(24)$$

$$C = (3.14)(24)$$

$$C = 75.36$$

$$C = 75.4 \text{ yd}$$

8) $C = \pi d$ $r = 5.5, d = 11$

$$C = \pi(11)$$

$$C = (3.14)(11)$$

$$C = 34.54$$

$$C = 34.5 \text{ mi}$$

9) $A = \pi r^2$ $r = 12$

$$A = (3.14)(12)^2$$

$$A = (3.14)(144)$$

$$A = 452.16$$

$$A = 452.2 \text{ ft}^2$$

10) $A = \pi r^2$ $r = 10$

$$A = (3.14)(10)^2$$

$$A = (3.14)(100)$$

$$A = 314 \text{ cm}^2$$

$$11) A = \pi r^2 \quad r = 8$$

$$A = (3.14)(8)^2$$

$$A = (3.14)(64)$$

$$A = 200.96$$

$$A = 201.0 \text{ m}^2$$

$$12) A = \pi r^2 \quad d = 4, r = 2$$

$$A = (3.14)(2)^2$$

$$A = 3.14(4)$$

$$A = 12.56$$

$$A = 12.6 \text{ m}^2$$

$$13) A = \pi r^2 \quad d = 20 \quad r = 10$$

$$A = (3.14)(10)^2$$

$$A = 3.14(100)$$

$$A = 314.0 \text{ yd}^2$$

$$14) A = \pi r^2 \quad d = 34, r = 17$$

$$A = 3.14(17)^2$$

$$A = 3.14(289)$$

$$A = 907.46$$

$$A = 907.5 \text{ ft}^2$$

$$15) A = \pi r^2 \quad r = 8$$

$$A = 3.14(8)^2$$

$$A = 3.14(64)$$

$$A = 200.96$$

$$A = 201.0 \text{ ft}^2$$

$$16) A = \pi r^2 \quad r = 5$$

$$A = 3.14(5)^2$$

$$A = 3.14(25)$$

$$A = 78.5 \text{ cm}^2$$

$$17) A = 4\pi$$

$$A = \pi r^2$$

$$4\pi = \pi r^2$$

$$4 = r^2$$

$$\sqrt{4} = \sqrt{r^2}$$

$$2 = r$$

$$4 \text{ in.} = d$$

$$18) A = 49\pi$$

$$A = \pi r^2$$

$$49\pi = \pi r^2$$

$$49 = r^2$$

$$\sqrt{49} = \sqrt{r^2}$$

$$7 = r$$

$$14 \text{ yd} = d$$

$$19) C = 162\pi$$

$$C = \pi d$$

$$162\pi = \pi d$$

$$162 \text{ yd} = d$$

$$20) C = 30\pi$$

$$C = \pi d$$

$$30\pi = \pi d$$

$$30 \text{ yd} = d$$