

# Review Sheet: Solving a Formula for a Variable

**Solve the formula for the specified variable.**

1)  $A = \frac{1}{2}bh$  for  $b$  1) \_\_\_\_\_

2)  $S = 2\pi rh + 2\pi r^2$  for  $h$  2) \_\_\_\_\_

3)  $V = \frac{1}{3}Bh$  for  $h$  3) \_\_\_\_\_

4)  $P = s_1 + s_2 + s_3$  for  $s_3$  4) \_\_\_\_\_

5)  $F = \frac{9}{5}C + 32$  for  $C$  5) \_\_\_\_\_

6)  $d = rt$  for  $r$  6) \_\_\_\_\_

7)  $P = 2L + 2W$  for  $W$  7) \_\_\_\_\_

**Solve the equation for  $y$ .**

8)  $4x + y = 12$  8) \_\_\_\_\_

9)  $17x + 6y = 11$  9) \_\_\_\_\_

10)  $x = 8y + 9$  10) \_\_\_\_\_

11)  $-5x + 20y = 0$  11) \_\_\_\_\_

**Solve the formula for the specified variable.**

12)  $d = rt$  for  $t$  12) \_\_\_\_\_

13)  $A = \frac{1}{2}bh$  for  $b$  13) \_\_\_\_\_

14)  $V = \frac{1}{3}Bh$  for  $h$  14) \_\_\_\_\_

15)  $P = 2L + 2W$  for  $W$  15) \_\_\_\_\_

16)  $S = 2\pi rh + 2\pi r^2$  for  $h$  16) \_\_\_\_\_

17)  $P = s_1 + s_2 + s_3$  for  $s_3$  17) \_\_\_\_\_

18)  $F = \frac{9}{5}C + 32$  for C

18) \_\_\_\_\_

19)  $I = \frac{nE}{nr + R}$  for n

19) \_\_\_\_\_

20)  $A = P(1 + nr)$  for r

20) \_\_\_\_\_

21)  $A = \frac{1}{2}h(b_1 + b_2)$  for  $b_1$

21) \_\_\_\_\_

## Answer Key

Testname: MATH 120 SUMMER 2011 REVIEW SHEET FOUR SOLVING FORMULAS

$$1) b = \frac{2A}{h}$$

$$2) h = \frac{S - 2\pi r^2}{2\pi r}$$

$$3) h = \frac{3V}{B}$$

$$4) s_3 = P - s_1 - s_2$$

$$5) C = \frac{5}{9}(F - 32)$$

$$6) r = \frac{d}{t}$$

$$7) W = \frac{P - 2L}{2}$$

$$8) y = 12 - 4x$$

$$9) y = \frac{11 - 17x}{6}$$

$$10) y = \frac{x - 9}{8}$$

$$11) y = \frac{x}{4}$$

$$12) t = \frac{d}{r}$$

$$13) b = \frac{2A}{h}$$

$$14) h = \frac{3V}{B}$$

$$15) W = \frac{P - 2L}{2}$$

$$16) h = \frac{S - 2\pi r^2}{2\pi r}$$

$$17) s_3 = P - s_1 - s_2$$

$$18) C = \frac{5}{9}(F - 32)$$

$$19) n = \frac{-IR}{Ir - E}$$

$$20) r = \frac{A - P}{Pn}$$

$$21) b_1 = \frac{2A - hb_2}{h}$$