NAME _____ DATE _____ PERIOD _____

3-8 Skills Practice

Solving Equations and Formulas

Solve each equation or formula for the variable specified.

1. $3t = a$, for t $t = \frac{a}{3}$
2. $x = ap$, for p $p = \frac{x}{a}$
3. $q - r = s$, for r $r = \frac{q}{s}$
4. $6m - n = m$, for m $m = \frac{n}{5}$
5. $3x - 9 = 15a$, for a $a = -\frac{9}{5}$
6. $-3r + d = 2r$, for r $r = \frac{d}{7}$
7. $x - 2y = 1$, for y $y = \frac{x-1}{2}$
8. $m + 3n = 1$, for n $n = \frac{1-m}{3}$
9. $5f + g = 5$, for f $f = \frac{5-g}{7}$
10. $ax - c = b$, for x $x = \frac{b+c}{a}$
11. $rt - 2n = y$, for t $t = \frac{2n+y}{r}$
12. $3r + 3g = 28$, for c $c = \frac{2n-3g}{b}$
13. $6x + 4f = 9r$, for x $x = \frac{9r-4f}{6}$
14. $8c + 6j = 5p$, for c $c = \frac{5p-6j}{8}$
15. $\frac{x-c}{2} = d$, for x $x = c + 2d$
16. $\frac{x-c}{2} = d$, for c $c = x - 2d$
17. $\frac{p+9}{2} = q$, for p $p = 5q - 9$
18. $\frac{3-4z}{2} = a$, for b $b = 7a + 4z$

Write an equation and solve for the variable specified.

19. Five more than a number g is six less than twice a number h. Solve for g.
$g + 5 = 2h - 6$; $g = 2h - 11$

20. One fourth of a number q is three more than three times a number w. Solve for q.
$\frac{1}{4}q = 3w + 3$; $q = 12w + 12$

21. Eight less than a number s is three more than four times a number t. Solve for s.
$s - 8 = 4t + 3$; $s = 4t + 11$

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Lesson 3-8

NAME _____ DATE _____ PERIOD _____

3-8 Practice (Average)

Solving Equations and Formulas

Solve each equation or formula for the variable specified.

1. $d = rt$, for r $r = \frac{d}{t}$
2. $6x - y = 2c$, for x $x = \frac{2c+y}{6}$
3. $mx + 4y = 3c$, for x $x = \frac{3c-4y}{m}$
4. $9c - 3g = -6x$, for x $x = \frac{-6x+3g}{9}$
5. $ab + 5c = 2d$, for b $b = \frac{2d-3c}{a}$
6. $2p + 4x = q$, for x $x = \frac{2p+q}{4}$
7. $\frac{2}{3}m + n = n + c$, for m $m = \frac{3}{2}c$
8. $\frac{2}{3}h + g = d$, for h $h = \frac{3}{2}(d - g)$
9. $\frac{3}{4}y + c = a$, for y $y = \frac{3}{4}(a - c)$
10. $\frac{3}{4}x - q = b$, for x $x = \frac{4}{3}(b + q)$
11. $\frac{3x+9}{5} = h$, for x $x = \frac{5h-9}{3}$
12. $\frac{3x-4}{2} = c$, for b $b = \frac{2c+4}{3}$
13. $2x - y = 7x - 2$, for w $w = \frac{2-y}{5}$
14. $3t + y = 5 + 3t$, for t $t = \frac{y-5}{3}$

Write an equation and solve for the variable specified.

15. Three times a number x plus 4 times a number y is 1 more than 6 times the number x. Solve for x.
$3x + 4y = 6x + 1$; $x = \frac{4y-1}{3}$

16. Five times a number k minus 9 is two thirds of a number j. Solve for j.
$5k - 9 = \frac{2}{3}j$; $j = \frac{3}{2}(5k - 9)$

ELECTRICITY For Exercises 17 and 18, use the following information.

The formula for Ohm's Law is $E = IR$, where E represents voltage measured in volts, I represents current measured in amperes, and R represents resistance measured in ohms.

17. Solve the formula for R. $R = \frac{E}{I}$

18. Suppose a current of 0.25 ampere flows through a resistor connected to a 12-volt battery. What is the resistance in the circuit? 48 ohms

MOTION For Exercises 19 and 20, use the following information.

In uniform circular motion, the speed v of a point on the edge of a spinning disk is $v = \frac{3r}{T}\pi$, where r is the radius of the disk and T is the time it takes the point to travel once around the circle.

19. Solve the formula for r. $r = \frac{Tv}{3\pi}$

20. Suppose a merry-go-round is spinning once every 3 seconds. If a point on the outside edge has a speed of 22.56 feet per second, what is the radius of the merry-go-round? (Use 3.14 for π.) 6 ft

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