

1.4 – Rewriting Equations Practice

Key 1

Solve for the indicated variable in the parenthesis. Show all of your work!

1. $P = Irt$ (t)

$$\frac{P}{Ir} = t$$

2. $y = 4x - 2$ (x)

$$\frac{y+2}{4} = x$$

$$x = \frac{1}{4}y + \frac{1}{2}$$

3. $P = 2(L + W)$ (W)

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

4. $A = 4r^2$ (r)
Hint: square root

$$\sqrt{\frac{A}{4}} = r$$

5. $V = \pi r^2 h$ (h)

$$\frac{V}{\pi r^2} = h$$

6. $I \cdot R = \frac{E}{I}$ (I)

$$I = \frac{E}{R}$$

7. $3 \cdot A = \frac{a+b+c}{3}$ (a)

$$3A - b - c = a$$

8. $V = \frac{LWH}{WH}$ (L)

$$\frac{V}{WH} = L$$

9. $D = \frac{RT}{R}$ (T)

$$\frac{D}{R} = T$$

10. $N \cdot P = \frac{R-C}{N} N(R)$

$$NP + C = R$$

11. $R \cdot \frac{x+z-w}{R} = 1 \cdot R$ (Z)

$$z = R - x + w$$

12. $3x - 5y - 11 = 0$ (y)

$$\frac{3}{5}x - \frac{11}{5} = y$$

SAT REVIEW

MULTIPLE CHOICE

If n is a constant and $2a + 5 = 3na + 5$ for all values of a , what is the value of n ?

- (A) 5
- (B) 3
- (C) 2
- (D) $\frac{3}{2}$
- (E) $\frac{2}{3}$

$$2a + 5 = 3na + 5$$

$$-5 \quad -5$$

$$\frac{2a}{a} = \frac{3na}{a}$$

$$\frac{2}{3} = n$$

$$\frac{2}{3} = n$$

GRID IN

What is the greatest 3-digit integer that has a factor of 10?

999 ← largest 3-digit
998
997
⋮
990

	9	9	0
•	•	•	•
①	①	①	①
②	②	②	②
③	③	③	③
④	④	④	④
⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧