

PG 154 - 160 even

$$2. \quad (2b - 3a) + (b + a)$$

$$2b + b - 3a + a$$
$$3b - 2a$$

D

$$4. \quad -2 \cdot (7 \cdot 4) = (-2 \cdot 7) \cdot 4$$

D DISTRIBUTIVE
PROPERTY OF
MULTIPLICATION
BECAUSE DISTRIBUTING
NUMBER FROM OUTSIDE
OF PARENTHESIS.

$$6) \quad 3(6x + 2) - 2(5x + 3)$$

$$(3 \cdot 6x) + 3(2) - 2(5x) - 2(3)$$
$$\underline{18x} + 6 - \underline{10x} - 6$$
$$18x - 10x + 6 - 6$$
$$8x$$

A

$$8) \quad 8 \times (7 \times 9) = (7 \times 9) \times 8$$

A COMMUTATIVE
PROPERTY OF
MULTIPLICATION

$$10) \quad .15x = 3000$$
$$.15x = 3600$$

$$.15 = 15\% \text{ OF EARNINGS}$$

$$x = \text{EARNINGS}$$

$$\frac{.15x}{.15} = \frac{3000}{.15}$$

$$x = 20000$$

$$\frac{.15x}{.15} = \frac{3600}{.15}$$

$$x = 24000$$

$$24000 - 20000$$
$$= 4000$$

A

$$12 \quad V = \frac{1}{3} \pi r^2 h$$

$$V = 21$$

$$r = 2$$

$$\pi = 3.14$$

$$21 = \frac{1}{3} \cdot 3.14 (2)^2 h$$

$$3 \cdot 21 = \frac{1}{3} \cdot 3.14 (4) (h) \cdot 3$$

$$\frac{63}{12.56} = \frac{12.56 h}{12.56}$$

$$5.01 = h$$

C

$$14 \quad \frac{13}{55} = \frac{x}{10}$$

$$\frac{130}{55} = \frac{55x}{55}$$

$$2.36 = x$$

B

$$16) \quad 2w + 33 = 54$$

$$-33 = -33$$

$$\frac{2w}{2} = \frac{21}{2}$$

$$w = 10.5$$

A

$$18) \quad 25x + .30y = t$$

$$x = \text{Days} = 4$$

$$y = \text{miles} = 56$$

$$25(4) + .30(y) = t$$

$$25(4) + .30(56) = t$$

$$100 + 16.8 = t$$

$$116.8 = t$$

D