

□ p. 91-92 # 3-17 odd, 29-35 odd, 36-39, 45-48, 50-51  
 A#6 □ p. 106-107 # 11-21 odd, 44-47

Key

□ p. 91-92 # 3-17 odd, 29-35 odd, 36-39, 45-48, 50-51

3.  $-4(7)$     5.  $(-9)(-10)$     7.  $5(-7.2)$     9.  $-42(-\frac{1}{6})$

$-28$

$90$

$-36$

$7$

11.  $-1.9(3.3)(7)$     13.  $-\frac{5}{6}(-12)(-4)$     15.  $-8(-4)(-2.5)$

$-6.27(7)$

$10(-4)$

$32(-2.5)$

$-43.89$

$-40$

$-80$

17.  $18(-\frac{2}{3})(-\frac{1}{5})$     29.  $-18(-x)$     31.  $-2(-6)(-7z)$

$-12(-\frac{1}{5})$

$18x$

$12(-7z)$

$\frac{12}{5}$

$-84z$

33.  $-\frac{1}{5}(-10)(4)(-5c)$     35.  $-6r(-2.8r)$     36.  $\frac{1}{3}(-\frac{9}{10})(-m)(-m)$

$2(4)(-5c)$

$16.8r^2$

$-\frac{3}{10}(-m)(-m)$

$8(-5c)$

$\frac{3}{10}m(-m)$

$-40c$

$-\frac{3}{10}m^2$

For # 37-39,  $x = -2$  and  $y = 3.6$ .

37.  $2x + y$     38.  $-x - 3y$     39.  $xy - 5.4$

$2(-2) + 3.6$

$-(-2) - 3(3.6)$

$(-2)(3.6) - 5.4$

$-4 + 3.6$

$2 - 10.8$

$-7.2 + (-5.4)$

$-0.4$

$2 + (-10.8)$

$-12.6$

True or False?

$-8.8$

45. If  $x$  is negative, then  $x^2$  is positive. True  $(-)^2 = (-)(-) = (+)$

46. If the product  $abc$  is positive, then  $a, b,$  and  $c$  are all positive.

False

Two of the #'s could be negative. Ex:  $(-4)(-2)(3) = 24$

47. If the product of four numbers is 0, then at least one of the numbers is 0.

True

the only way to get a product of 0 is to multiply by at least one 0.

48. If  $a < 0$  and  $abc > 0$ , which statement must be true?

$a < 0 \rightarrow$  negative     $abc > 0 \rightarrow$  positive therefore  $bc < 0$  (negative)

B

Key

50.  $-5.7$  sq. km per year for 61 years

$$\text{change} = (-5.7)(61)$$

$$SA = \text{original} + \text{change}$$

$$\text{change} = -347.7 \text{ sq. km}$$

$$SA = 980 + (-347.7)$$

$$SA = 632.3 \text{ sq. km}$$

The surface area of the Dead Sea in 2001 was about 632.3 sq. km.

$$51. \text{ Value} = 50(3.50 + (.25))$$

$$V = 50(3.25)$$

$$V = 162.5 \quad \text{The total value of the shares is } \$162.50.$$

2 p. 106-107 #11-21 odd, 44-47

$$11. -21 \div 3 \quad 13. -1 \div (-\frac{7}{2}) \quad 15. 13 \div (-4\frac{1}{3}) \quad 17. -\frac{1}{2} \div \frac{1}{5}$$

$$\boxed{-7}$$

$$-1(-\frac{2}{7})$$

$$13(-\frac{3}{13})$$

$$-\frac{1}{2}(\frac{5}{1})$$

$$\boxed{\frac{2}{7}}$$

$$\boxed{-3}$$

$$\boxed{-\frac{5}{2}}$$

$$19. -\frac{4}{7} \div (-2) \quad 21. 8 \div (-\frac{4}{11}) \quad 44. \frac{2y-x}{x} \text{ when } x=1 \text{ and } y=-4$$

$$-\frac{4}{7}(-\frac{1}{2})$$

$$8(-\frac{11}{4})$$

$$\frac{2(-4)-1}{1}$$

$$\boxed{\frac{2}{7}}$$

$$\boxed{-22}$$

$$\frac{-8+(-1)}{1}$$

$$\boxed{-9}$$

$$45. \frac{4x}{3y+x} \text{ when } x=6 \text{ and } y=-8 \quad 46. \frac{-9x}{y^2-1} \text{ when } x=-3 \text{ and } y=-2$$

$$\frac{4(6)}{3(-8)+6}$$

$$\frac{-9(-3)}{(-2)^2-1}$$

$$\frac{24}{-24+6}$$

$$\frac{27}{4+(-1)}$$

$$\frac{24}{-18}$$

$$\frac{27}{3}$$

$$\boxed{-\frac{4}{3}}$$

$$\boxed{9}$$

$$47. \frac{y-x}{xy} \text{ when } x=-6 \text{ and } y=-2$$

$$\frac{-2-(-6)}{(-6)(-2)}$$

$$\frac{-2+6}{12}$$

$$\frac{4}{12}$$

$$\boxed{\frac{1}{3}}$$