Homework

1 A whale dives at a speed of 3 feet per second. What is the change in the position of the whale relative to where it started after 12 seconds?

   A   −36 feet   **C**   4 feet

   B   −4 feet   **D**   36 feet

2 Tell whether each equation is *True* or *False*.

   a. $-7 \cdot 8 = 7 \cdot (-8)$ ☐ True   ☐ False

   b. $-7 \cdot (-8) = 7 \cdot 8$ ☐ True   ☐ False

   c. $7 \cdot (-8) = 7 \cdot 8$ ☐ True   ☐ False

3 Myra withdraws the same amount of money from her checking account each week. In 4 weeks, she withdraws a total of $200. Which equation represents the amount of money her account changes by each week?

   A $-200 \div (-4) = 50$

   B $-200 \div 4 = -50$

   C $-200 \div 4 = 50$

   D $-200 \div (-4) = -50$

Sam chose **C** as the correct answer. How did he get that answer?

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4 Kain made two number cubes to use in a game. The faces on each cube contain the numbers 1, −2, 3, −4, 5, and −6. After Kain rolls the two cubes, he multiplies the two numbers.

What is true about the signs of two factors if their product is positive?

a. Give an example of two numbers that Kain could roll to get a positive product.

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b. Give an example of two numbers that Kain could roll to get a negative product.

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5 Savannah solves each of the following problems as shown below.

Remember to pay careful attention to the signs of numbers as you find quotients and products.

a. $-6 \cdot 12 \div (-4) = 18$

b. $8 \cdot (-3) \div 6 = -4$

c. $-40 \cdot (-2) \div (-10) = 8$

d. $-7 \cdot 5 \cdot (-2) \div 5 = 14$

Are the answers correct? Explain any incorrect answers.

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