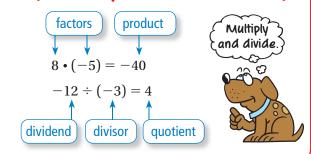
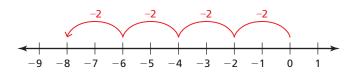
REVIEW: Multiplying and Dividing **Integers**

Key Concept and Vocabulary



Visual Model

$$4 \cdot (-2) = (-2) + (-2) + (-2) + (-2)$$



Skill Examples

3.
$$-7 \cdot 0 = 0$$

4.
$$-10 \div 5 = -2$$
 different signs, product and quotient negative

5.
$$-5 \cdot 6 = -30$$

Application Example

6. You pay six friends \$5 each from your bank account. Use integer multiplication to represent the change in the amount of money in your account.

$$6 \cdot (-5) = -30$$

The amount of money in your bank account decreases \$30.

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Check your answers at BigIdeasMath.com.

7.
$$-3 \times (-5) = 15$$
 8. $7(-3) = -21$ 9. $0 \cdot (-5) = 0$ 10. $(-5)(-7) = 35$

9.
$$0 \cdot (-5) = \underline{0}$$

10.
$$(-5)(-7) = _{\underline{}}$$

11.
$$-8 \cdot 2 = -16$$

12.
$$(-5)^2 = 25$$

13.
$$(-3)^3 = \underline{-27}$$

11.
$$-8 \cdot 2 = \underline{-16}$$
 12. $(-5)^2 = \underline{25}$ **13.** $(-3)^3 = \underline{-27}$ **14.** $4(-2)(-3) = \underline{24}$

15.
$$-16 \div 4 = \underline{-4}$$

16.
$$-20 \div (-5) = 4$$

17.
$$\frac{-9}{2} = \underline{-3}$$

15.
$$-16 \div 4 = \underline{-4}$$
 16. $-20 \div (-5) = \underline{4}$ **17.** $\frac{-9}{3} = \underline{-3}$ **18.** $\frac{-20}{-10} = \underline{2}$

Complete the multiplication or division equation.

19.
$$-15 \div \underline{5} = -3$$
 20. $45 \div \underline{(-9)} = -5$ **21.** $\underline{-100} \div (-20) = 5$

20.
$$45 \div \frac{(-9)}{} = -5$$

21.
$$\underline{-100} \div (-20) = 5$$

22.
$$8 \cdot (-8) = -64$$

23.
$$-3 \cdot (-9) = 27$$

22.
$$8 \cdot \frac{(-8)}{} = -64$$
 23. $\frac{-3}{} \cdot (-9) = 27$ **24.** $-12 \cdot \frac{8}{} = -96$

25. BANK ACCOUNT You pay eight friends \$10 each from your bank account. Use integer multiplication to represent the change in the amount of money in your account.

$$8 \cdot (-10) = -80$$

26. TEMPERATURE The low temperatures for a week in Edmonton, Alberta are -15° C, -12° C, -10° C, -12° C, -18° C, -20° C, and -25° C. What is the mean low temperature for the week? Show your work.

$$-16^{\circ}\text{C}; [-15 + (-12) + (-10) + (-12) + (-18) + (-20) + (-25)] \div 7$$
$$= -112 \div 7 = -16$$