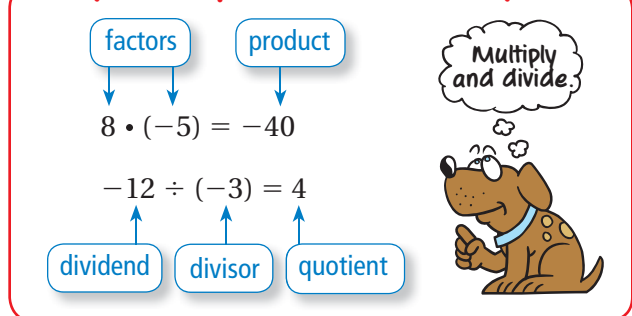


REVIEW: Multiplying and Dividing Integers

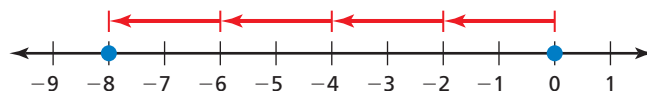
Name _____

Key Concept and Vocabulary



Visual Model

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



Skill Examples

- $-3 \cdot (-4) = 12$ ← same sign, product and quotient positive
- $-36 \div (-6) = 6$ ← same sign, product and quotient positive
- $-7 \cdot 0 = 0$
- $-10 \div 5 = -2$ ← different signs, product and quotient negative
- $-5 \cdot 6 = -30$ ← different signs, product and quotient negative

Application Example

- Each of your six friends owes you \$5. Use integer multiplication to represent the total amount your friends owe you.

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

∴ The total amount owed is \$30.

PRACTICE MAKES PURR-FECT™



Check your answers at BigIdeasMath.com.

Find the product or quotient.

- $-3 \times (-5) = \underline{\quad}$
- $7(-3) = \underline{\quad}$
- $0 \cdot (-5) = \underline{\quad}$
- $(-5)(-7) = \underline{\quad}$
- $-8 \cdot 2 = \underline{\quad}$
- $(-5)^2 = \underline{\quad}$
- $(-3)^3 = \underline{\quad}$
- $4(-2)(-3) = \underline{\quad}$
- $-16 \div 4 = \underline{\quad}$
- $-20 \div (-5) = \underline{\quad}$
- $\frac{-9}{3} = \underline{\quad}$
- $\frac{-20}{-10} = \underline{\quad}$

Complete the multiplication or division equation.

- $-15 \div \underline{\quad} = -3$
- $45 \div \underline{\quad} = -5$
- $\underline{\quad} \div (-20) = 5$
- $8 \cdot \underline{\quad} = -64$
- $\underline{\quad} \cdot (-9) = 27$
- $-12 \cdot \underline{\quad} = -96$

- TOTAL OWED** Each of your eight friends owes you \$10. Use integer multiplication to represent the total amount your friends owe you. _____

- 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.