

Mid-Chapter Check

Vocabulary Check



1. **CCSS Be Precise** Define *Commutative Property*. Provide an example of an operation that is commutative. Provide an example of an operation which is not commutative. (Lesson 2)

Sample answer: The order that numbers are added or multiplied does not change the answer. Addition is commutative because $4 + 6 = 6 + 4$.

Subtraction is not commutative because $6 - 4$ is not equal to $4 - 6$.

Skills Check and Problem Solving

Multiply. Write in simplest form. (Lessons 1–4)

2. $8 \times \frac{2}{5} = \underline{3\frac{1}{5}}$

3. $\frac{7}{8} \times \frac{2}{3} = \underline{\frac{7}{12}}$

4. $4\frac{3}{4} \times 2\frac{1}{8} = \underline{10\frac{3}{32}}$



5. A new shirt costs \$14.99. If the shirt is on sale for $\frac{1}{5}$ off its price, about how much would you save? (Lesson 1) **about \$3.00**

5. A new shirt costs \$14.99. If the shirt is on sale for $\frac{1}{5}$ off its price, about how much would you save? (Lesson 1) about \$3.00

6. **CCSS Justify Conclusions** Corey needs 24 boards that are $47\frac{1}{2}$ inches long. (Lesson 5)

a. How many feet of boards should he buy? Explain. He will need to buy 95 feet of boards. $47\frac{1}{2}$ times 24 equals 1,140 inches divided by 12 equals 95 feet.

b. If you can only buy 8-foot boards, how many should he buy? Explain. He will need to buy 12 boards that are 8 feet long. He needs $47\frac{1}{2}$ inch boards. An 8-ft board can make 2 boards ($(8 \times 12) \div 47\frac{1}{2} = 2\frac{2}{95}$). He needs $24 \div 2$ or 12 of the 8-foot boards.

7. **CCSS Persevere with Problems** What is the area of the picture and frame shown? Write your answer as a mixed number in simplest form.

(Lesson 4) $84\frac{7}{12} \text{ in}^2$

