

2.R.4 Exercises

True/False. Determine whether each statement is true or false. If a statement is false, explain how it can be changed so the statement will be true. (**Note:** There may be more than one acceptable change.)

1. If a negative number is divided by a positive number, the result will be a negative number.
2. The product of zero and a number is zero.
3. If two numbers have the same sign, both the product and the quotient of the two numbers will be negative.
4. The mean of a set of numbers is always positive.

Practice

Multiply. Reduce fractions to lowest terms.

5. $12 \cdot 4$

6. $(-7)(-16)(0)$

Divide. Reduce fractions to lowest terms. Round answers with decimals to the nearest tenth.

7. $\frac{-20}{-10}$

8. $\frac{-5.6}{7}$

Applications

Solve.

9. **Mean:** Find the mean of the following set of integers: -10 , 15 , 16 , -17 , -34 , and -42 .
10. **Animals:** According to the US Fish and Wildlife Service, migratory birds are imported at a value of about \$19 each. Suppose that about 800,000 live birds are imported each year. What is the total value of these imported birds?

Writing & Thinking

11. If you multiply an odd number of negative numbers together, do you think that the product will be positive or negative? Explain your reasoning.

12. Explain the conditions under which the quotient of two numbers is 0.