

# Ready to Go On?

**Personal  
Math Trainer**Online Assessment  
and Intervention

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## 1.1 Adding Integers with the Same Sign

Add.

1.  $-8 + (-6)$  \_\_\_\_\_

2.  $-4 + (-7)$  \_\_\_\_\_

3.  $-9 + (-12)$  \_\_\_\_\_

## 1.2 Adding Integers with Different Signs

Add.

4.  $5 + (-2)$  \_\_\_\_\_

5.  $-8 + 4$  \_\_\_\_\_

6.  $15 + (-8)$  \_\_\_\_\_

## 1.3 Subtracting Integers

Subtract.

7.  $2 - 9$  \_\_\_\_\_

8.  $-3 - (-4)$  \_\_\_\_\_

9.  $11 - (-12)$  \_\_\_\_\_

## 1.4 Applying Addition and Subtraction of Integers

10. A bus makes a stop at 2:30, letting off 15 people and letting on 9. The bus makes another stop ten minutes later to let off 4 more people. How many more or fewer people are on the bus after the second stop compared to the number of people on the bus before the 2:30 stop?

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11. Cate and Elena were playing a card game. The stack of cards in the middle had 24 cards in it to begin with. Cate added 8 cards to the stack. Elena then took 12 cards from the stack. Finally, Cate took 9 cards from the stack. How many cards were left in the stack?

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**ESSENTIAL QUESTION**

12. Write and solve a word problem that can be modeled by addition of two negative integers.

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## 2.1 Multiplying Integers

Find each product.

1.  $(-2)(3)$  \_\_\_\_\_

2.  $(-5)(-7)$  \_\_\_\_\_

3.  $(8)(-11)$  \_\_\_\_\_

4.  $(-3)(2)(-2)$  \_\_\_\_\_

5. The temperature dropped  $3^{\circ}\text{C}$  every hour for 5 hours.  
Write an integer that represents the change in temperature. \_\_\_\_\_

## 2.2 Dividing Integers

Find each quotient.

6.  $\frac{-63}{7}$  \_\_\_\_\_

7.  $\frac{-15}{-3}$  \_\_\_\_\_

8.  $0 \div (-15)$  \_\_\_\_\_

9.  $96 \div (-12)$  \_\_\_\_\_

10. An elephant at the zoo lost 24 pounds over 6 months.  
The elephant lost the same amount of weight each month.  
Write an integer that represents the change in the elephant's  
weight each month. \_\_\_\_\_

## 2.3 Applying Integer Operations

Evaluate each expression.

11.  $(-4)(5) + 8$  \_\_\_\_\_

12.  $(-3)(-6) - 7$  \_\_\_\_\_

13.  $-27 \div 9 - 11$  \_\_\_\_\_

14.  $\frac{-24}{-3} - (-2)$  \_\_\_\_\_



### ESSENTIAL QUESTION

15. Write and solve a real-world problem that can be represented by the  
expression  $(-3)(5) + 10$ .

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## 3.1 Rational Numbers and Decimals

Write each mixed number as a decimal.

1.  $4\frac{1}{5}$  \_\_\_\_\_

2.  $12\frac{14}{15}$  \_\_\_\_\_

3.  $5\frac{5}{32}$  \_\_\_\_\_

## 3.2 Adding Rational Numbers

Find each sum.

4.  $4.5 + 7.1 =$  \_\_\_\_\_

5.  $5\frac{1}{6} + (-3\frac{5}{6}) =$  \_\_\_\_\_

## 3.3 Subtracting Rational Numbers

Find each difference.

6.  $-\frac{1}{8} - (6\frac{7}{8}) =$  \_\_\_\_\_

7.  $14.2 - (-4.9) =$  \_\_\_\_\_

## 3.4 Multiplying Rational Numbers

Multiply.

8.  $-4(\frac{7}{10}) =$  \_\_\_\_\_

9.  $-3.2(-5.6)(4) =$  \_\_\_\_\_

## 3.5 Dividing Rational Numbers

Find each quotient.

10.  $-\frac{19}{2} \div \frac{38}{7} =$  \_\_\_\_\_

11.  $\frac{-32.01}{-3.3} =$  \_\_\_\_\_

## 3.6 Applying Rational Number Operations

12. Luis bought stock at \$83.60. The next day, the price increased \$15.35. This new price changed by  $-4\frac{3}{4}\%$  the following day. What was the final stock price? Is your answer reasonable? Explain.

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### ESSENTIAL QUESTION

13. How can you use negative numbers to represent real-world problems?

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## 4.1 Unit Rates

Find each unit rate. Round to the nearest hundredth, if necessary.

1. \$140 for 18 ft<sup>2</sup> \_\_\_\_\_ 2. 14 lb for \$2.99 \_\_\_\_\_

Circle the better deal in each pair. Then give the unit rate for the better deal.

3.  $\frac{\$56}{25 \text{ gal}}$  or  $\frac{\$32.05}{15 \text{ gal}}$  \_\_\_\_\_ 4.  $\frac{\$160}{5 \text{ g}}$  or  $\frac{\$315}{9 \text{ g}}$  \_\_\_\_\_

## 4.2 Constant Rates of Change

5. The table shows the amount of money Tyler earns for mowing lawns. Is the relationship a proportional relationship? Why or why not?

Number of Lawns	1	2	3	4
Amount Earned (\$)	15	30	48	64

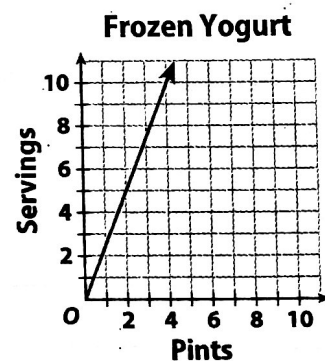
6. On a recent day, 8 euros were worth \$9 and 24 euros were worth \$27. Write an equation of the form  $y = kx$  to show the relationship between the number of euros and the value in dollars.

\_\_\_\_\_, where  $y$  is dollars and  $x$  is euros

## 4.3 Proportional Relationships and Graphs

7. The graph shows the number of servings in different amounts of frozen yogurt listed on a carton. Write an equation that gives the number of servings  $y$  in  $x$  pints.

8. A refreshment stand makes 2 large servings of frozen yogurt from 3 pints. Add the line to the graph and write its equation.



### ESSENTIAL QUESTION

9. How can you use rates to determine whether a situation is a proportional relationship?