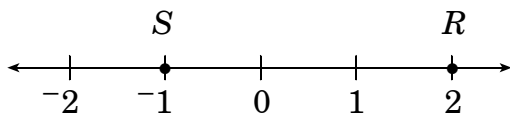


1. In a group of 20 students, there are 11 girls. What is the ratio of boys to girls?
- A 9 : 11
- B 9 : 20
- C 11 : 9
- D 11 : 20
2. The manufacturer's price for a tent is \$28.50. A camping store that bought the tents sells them for \$40.76. **Approximately** what was the percent of increase in the price of the tents?
- A 43%
- B 57%
- C 75%
- D 76%
3. A truck has traveled 75 miles in 1.5 hours of driving. At the same speed, which proportion can be used to determine how long,  $T$  (in hours), it would take the truck to travel 325 miles?
- A  $\frac{1.5}{325} = \frac{75}{T}$
- B  $\frac{325}{1.5} = \frac{75}{T}$
- C  $\frac{325}{75} = \frac{1.5}{T}$
- D  $\frac{75}{325} = \frac{1.5}{T}$
4. Larry spent \$34.00 for 12 gallons of gasoline. At the same price per gallon, how many gallons could he buy for \$51.00?
- A 17 gallons
- B 18 gallons
- C 29 gallons
- D 30 gallons

5. A city's daily low temperatures in January fluctuated between  $-7^{\circ}\text{F}$  and  $2^{\circ}\text{F}$ . What was the temperature range?

A  $2^{\circ}\text{F}$   
B  $5^{\circ}\text{F}$   
C  $7^{\circ}\text{F}$   
D  $9^{\circ}\text{F}$

6. Two numbers are represented by the points  $S$  and  $R$  on the number line.



Which statement is true?

A  $S \div R > 0$   
B  $S - R > 0$   
C  $S \cdot R < 0$   
D  $S + R < 0$

7. According to the 1998 Census Bureau data, New York City was ranked number 1 in population with a population of approximately  $7.3 \times 10^6$  people. Los Angeles ranked number 2 with a population of slightly less than half that of New York City. Which of the following is the **approximate** population of Los Angeles?

A 135,000  
B 3,500,000  
C 3,900,000  
D 14,700,000

8. A 20-foot piece of rope will be cut into as many  $1\frac{1}{2}$ -foot sections as possible. How much rope will be left over?

A 6 inches  
B  $6\frac{2}{3}$  inches  
C 10 inches  
D  $13\frac{1}{3}$  inches

9. Chris is making pancakes. The recipe makes four servings.

**Pancake Recipe**

(4 servings)

 $\frac{3}{4}$  cup flour $\frac{1}{2}$  cup milk

1 egg

1 tablespoon oil

He wants to make enough for six servings. How much flour does he need?

- A  $1\frac{1}{2}$  cups
- B  $1\frac{1}{8}$  cups
- C 1 cup
- D  $\frac{3}{16}$  cup

10. Martine spent  $\frac{2}{3}$  of her money on a book. She has \$6.50 left. How much did she spend on the book?

- A \$3.25
- B \$9.75
- C \$13.00
- D \$19.50

11. A copying machine reduces a 12-inch line segment to 10.5 inches. At this setting, what would a 16-inch line segment become?

- A 12 inches
- B 14 inches
- C 16 inches
- D 18 inches

12. Mr. Jones purchased a CD player for \$97.19 including tax. The CD player had a sticker price of \$89.99. **About** what percent sales tax did he pay?

- A 6%
- B 7%
- C 8%
- D 9%

13. A 6-ounce box of strawberry gelatin costs \$0.90 and a 3-ounce box costs \$0.42. What is the difference in cost per ounce between the larger and the smaller boxes?

- A \$0.48
- B \$0.04
- C \$0.03
- D \$0.01

### End of Goal 1 Sample Items

*In compliance with federal law, including the provisions of Title IX of the Education Amendments of 1972, the Department of Public Instruction does not discriminate on the basis of race, sex, religion, color, national or ethnic origin, age, disability, or military service in its policies, programs, activities, admissions of employment.*

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|---|--|--------------------------|
| 1 | <b>Objective:</b> 1.01<br>Develop and use ratios, proportions, and percents to solve problems.<br><b>Thinking Skill:</b> Applying  | <b>Correct Answer:</b> A |
| 2 | <b>Objective:</b> 1.01<br>Develop and use ratios, proportions, and percents to solve problems.<br><b>Thinking Skill:</b> Applying  | <b>Correct Answer:</b> A |
| 3 | <b>Objective:</b> 1.01<br>Develop and use ratios, proportions, and percents to solve problems.<br><b>Thinking Skill:</b> Analyzing   | <b>Correct Answer:</b> D |
| 4 | <b>Objective:</b> 1.01<br>Develop and use ratios, proportions, and percents to solve problems.<br><b>Thinking Skill:</b> Applying  | <b>Correct Answer:</b> B |
| 5 | <b>Objective:</b> 1.02<br>Develop fluency in addition, subtraction, multiplication, and division of rational numbers; (a) Analyze computational strategies; (b) Describe the effect of operations on size; (c) Estimate the results of computations; (d) Judge the reasonableness of solutions.<br><b>Thinking Skill:</b> Analyzing  | <b>Correct Answer:</b> D |
| 6 | <b>Objective:</b> 1.02<br>Develop fluency in addition, subtraction, multiplication, and division of rational numbers; (a) Analyze computational strategies; (b) Describe the effect of operations on size; (c) Estimate the results of computations; (d) Judge the reasonableness of solutions.<br><b>Thinking Skill:</b> Applying   | <b>Correct Answer:</b> C |
| 7 | <b>Objective:</b> 1.02<br>Develop fluency in addition, subtraction, multiplication, and division of rational numbers; (a) Analyze computational strategies; (b) Describe the effect of operations on size; (c) Estimate the results of computations; (d) Judge the reasonableness of solutions.<br><b>Thinking Skill:</b> Generating | <b>Correct Answer:</b> B |
| 8 | <b>Objective:</b> 1.02<br>Develop fluency in addition, subtraction, multiplication, and division of rational numbers; (a) Analyze computational strategies; (b) Describe the effect of operations on size; (c) Estimate the results of computations; (d) Judge the reasonableness of solutions.<br><b>Thinking Skill:</b> Applying   | <b>Correct Answer:</b> A |

