110 • The Number System

Express the fact that -25°F is colder than -20°F.

a) -25°F < -20°F

b) -25°F > -20°F

c) -25°F = -20°F

106 • The Number System

On a number line oriented from left to right, what does the statement -8 < 1 mean?

a) -8 is located to the right of 1.

b) -8 is greater than 1.

c) -8 is located to the left of 1.

57 • The Number System

$3.58 \div 2 = ?$

a) 1.36

b) 1.79

c) 7.16

118 • The Number System

Which answer has the same absolute value as the point shown on the number line?

a)

b)
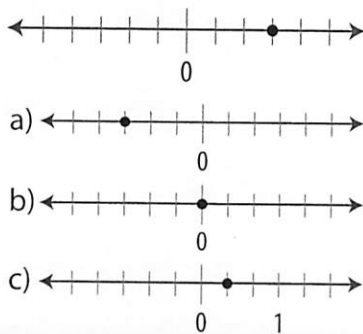
c)

96 • The Number System

Which coordinate pair is (-5, 7) reflected across the y-axis?

a) (5, 7)

b) (-5, -7)

c) (7, -5)

152 • Expressions and Equations

Which answer describes the expression 3(5 + 2)?

a) the quotient of 3 and the sum of 5 and 2

b) the product of 3 and the sum of 5 and 2

c) the product of 3 and the difference of 5 and 2

72 • The Number System

If the temperature is 30°C, how many degrees must the temperature decrease to become -50°C?

a) 20°

b) 30°

c) 80°

8. Find the Reciprocal of the following in simplest form (mixed number if necessary).

a. $\dfrac{4}{5}$	b. $\dfrac{18}{4}$	c. $5\dfrac{3}{4}$

Evaluate and place answer in simplest form.

9. $\dfrac{18}{25} \bullet \dfrac{15}{24} =$	10. $4\dfrac{2}{7} \div 3\dfrac{1}{3} =$

11. The area of a rectangle is $\dfrac{6}{11}$ square meters. The length of the rectangle is $\dfrac{3}{4}$ meters. How long is the width?

12. Boris ran for $14\dfrac{2}{5}$ minutes. If he runs 8 laps at the constant pace, how long will it take him to complete a single lap around the track?