

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Math Course 2 - Unit 1 - Version B - Print

1

What is the sum of  $8.02 + 3.145 + 12.2$  ?

- A) 11.165
- B) 11.287
- C) 23.365
- D) 40.690

2

Estimate the difference  $18.7 - 5.15$  . Then find the exact difference. Circle the numbers that correctly complete each sentence.

A good estimate of the difference between 18.7 and 5.15 is  [12/14]. The exact difference is  [13.55/13.65].

3

Roscoe wants to buy a hat for \$24.99, a jersey for \$99.99, and a sweatshirt for \$45.55. How can Roscoe estimate the total cost? Select all that apply.

- $\$24.99 + \$99.99 + \$45.55 = \$170.53$
- $\$0.00 + \$100.00 + \$50.00 = \$150.00$
- $\$20.00 + \$80.00 + \$50.00 = \$150.00$
- $\$20.00 + \$100.00 + \$50.00 = \$170.00$
- $\$25.00 + \$100.00 + \$46.00 = \$171.00$

4

Which gives a reasonable estimate of  $182.876 \div 5.72$  ?

- A)  $18 \div 6$
- B)  $20 \div 5$
- C)  $180 \div 6$
- D)  $200 \div 57$

5

Roberta purchased 4.3 pounds of peanuts. She paid \$7.74 for the peanuts. How much did she pay for a pound of peanuts?

- A) \$0.56
- B) \$1.80
- C) \$3.44
- D) \$0.18

6

Hector and Luigi are participating in a long jump competition. Hector's distance is  $17\frac{3}{4}$  feet. Luigi's distance is  $2\frac{2}{5}$  feet less than Hector's. What is Luigi's distance?

- A)  $15\frac{1}{20}$  feet
- B)  $15\frac{1}{9}$  feet
- C)  $15\frac{7}{20}$  feet
- D)  $20\frac{3}{20}$  feet

7

Which expression is a reasonable estimate of the quotient  $1\frac{5}{6} \div 5\frac{2}{5}$  ?

- A)  $\frac{1}{6} \div 1$
- B)  $2 \div 5\frac{1}{2}$
- C)  $5 \div 2$
- D)  $6 \div 25$

8

What is  $\frac{5}{16}$  expressed as a decimal?

- A) 0.3
- B) 0.3125
- C) 2.1125
- D) 3.2

9

At 10 : 00 a.m., the temperature at a ski resort was  $-4^{\circ}\text{C}$  . At 4 : 00 p.m., the temperature was  $9^{\circ}$  warmer. What was the temperature at 4 : 00 p.m.?

- A)  $-13^{\circ}\text{C}$
- B)  $-5^{\circ}\text{C}$
- C)  $5^{\circ}\text{C}$
- D)  $13^{\circ}\text{C}$

10

What is the opposite of 7?

- A)  $-7$
- B) 0
- C)  $\frac{1}{7}$
- D)  $\frac{7}{1}$

11

The value of a stock was \$25 per share on the first day. On the second day, the value of the stock decreased by \$3. On the third day, the value of the stock decreased by \$4. Write an expression that can be used to find the value of the stock on the third day.

- A)  $3 + 4$
- B)  $25 + 3 + 4$
- C)  $-3 + (-4)$
- D)  $25 + (-3) + (-4)$

Samantha is evaluating the expression  $-9 - (-13)$ . What is a logical first step in evaluating the expression?

- A) Rewrite the expression as  $9 - (-13)$ .
- B) Rewrite the expression as  $-9 - (+13)$ .
- C) Rewrite the expression as  $-9 + (+13)$ .
- D) Rewrite the expression as  $-9 + (-13)$ .

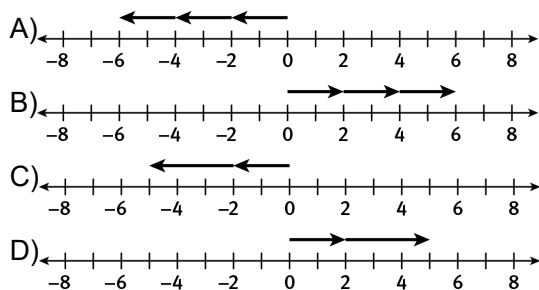
13

Franklin is riding a roller coaster. The highest peak of the roller coaster is 145 feet above the loading platform. When Franklin reaches the highest peak, his hat blows off and lands on the ground, 17 feet below the loading platform. Which shows a correct absolute value calculation of the distance between the peak where Franklin loses his hat and the spot where the hat lands?

- A)  $|145 - (-17)| = |145 + 17| = 162$  feet
- B)  $|145 - (-17)| = |145| - |-17| = 145 - 17 = 128$  feet
- C)  $|-17 - 145| = |-17| - |145| = 17 - 145 = -128$  feet
- D)  $|-17 - 145| = |-17| + |-145| = -17 - 145 = -162$  feet

14

Show how to find the product  $(-2)(3)$  using a number line.



15

What is the product of  $8(-4)$ ?

- A)  $-32$
- B)  $-2$
- C)  $2$
- D)  $32$

16

Reggie is flying a drone. The drone starts on the ground. The drone climbs at a rate of 5 meters per second for 60 seconds. The drone then descends at a rate of 2 meters per second for 30 seconds. Finally, the drone climbs at a rate of 4 meters per second for 10 seconds. Write an expression that can be used to find the current altitude of the drone.

- A)  $5(60) + 2(30) + 4(10)$
- B)  $5(60) + (-2)(30) + 4(10)$
- C)  $(-5)(60) + 2(30) + (-4)(10)$
- D)  $5(60) + (-2)(30) + (-4)(10)$

17

$-63 \div (-7) = \square$

18

In football, a running back is usually handed the football and runs with it. The table shows the number of yards gained by a running back on four consecutive running plays.

**Running Play Yards Gained**

1	-2
2	-3
3	5
4	-4

What is the average number of yards the running back gained over the four plays?

- A) -4
- B) -1
- C) 1
- D) 4

19

Write each number next to all of the categories that describe it.

<b>Whole Number</b>	
<b>Integer</b>	
<b>Rational Number</b>	

- $-\frac{7}{4}$
- $-\frac{4}{5}$
- 13

20

How is the set of integers related to the set of rational numbers?

- A) All integers are rational numbers.
- B) All rational numbers are integers.
- C) Some integers are rational numbers.
- D) Positive integers are rational numbers.

21

Miguel has \$1,315.87 in his checking account. He writes checks for \$350.00 and \$38.50. He also deposits \$115.23. Which shows a correct calculation of Miguel's new balance?

- A)  $1,315.87 - (350.00 + 38.50 + 115.23) = 812.14$
- B)  $1,315.87 + (-350.00 + 38.50 - 115.23) = 889.14$
- C)  $1,315.87 + (-350.00) + (-38.50) + 115.23 = 1,042.60$
- D)  $1,315.87 - 350.00 + 38.50 + 115.23 = 1,119.60$

22

The depth of a lake is measured each month and compared to the long-term average depth of the lake. In June, the lake depth was 0.35 inches above average depth. In July, the depth had decreased by 2.18 inches. In August, it decreased another 0.56 inches. Which equation shows the depth measured in August as compared to the average depth?

- A)  $0.35 - (-2.18 + 0.56) = 1.97$
- B)  $0.35 - (-2.18) + 0.56 = 3.09$
- C)  $0.35 - (2.78 + (-0.56)) = -1.87$
- D)  $0.35 + (-2.18) + (-0.56) = -2.39$

23

What is the subtraction expression  $\frac{1}{3} - (-\frac{2}{9})$  written as an addition expression?

- A)  $\frac{1}{3} + \frac{2}{9}$
- B)  $-\frac{1}{3} + \frac{2}{9}$
- C)  $\frac{1}{3} - (\frac{2}{9})$
- D)  $\frac{1}{3} + (-\frac{2}{9})$

24

Roberta is on a hiking trip. On the first day, she starts hiking at an elevation of 223.3 feet. By the end of the first day, her elevation increases by 276.8 feet. On the second day, her elevation decreases by 59.2 feet. On the third day, her elevation decreases by 76.3 feet. What is Roberta's elevation at the end of the third day?

- A) 364.6 feet
- B) 483.0 feet
- C) 517.2 feet
- D) 635.6 feet

25

What is the quotient  $\frac{5}{6} \div (-\frac{10}{3})$  ?

- A)  $-\frac{25}{9}$
- B)  $-\frac{1}{4}$
- C)  $\frac{1}{4}$
- D)  $\frac{25}{9}$