

Comprehensive Test 7.1

Absolute Value

1. Which of the following is a number less than 0?

- a. $|0|$
- b. $-|-1|$
- c. $|20|$
- d. $|11|$

2. Solve $|10 - 15|$

- a. 25
- b. 5
- c. -5
- d. -25

Representing Integers

3. Which situation could be represented by the integer -2?

- a. A football team gains 2 yards on a play.
- b. A golfer's score is 2 over par.
- c. A city is 2 feet below sea level.
- d. A student earns 2 bonus points on a quiz.

4. Which of these situations can be modeled with additive inverses? Select the two correct answers.

- a. E.J. walks 1 mile to the store. Then he walks 1 mile further to his friend's house.
- b. A bird is flying 8 feet above the surface of the lake. Then it dives 10 feet to catch a fish.
- c. Sofia earns \$15 babysitting. Then she pays \$15 for a new T-shirt.
- d. A commuter train travels 3 miles north from the center of town. Then it travels 3 miles west.
- e. Malik takes the elevator up 5 floors to his office. At the end of the day, he takes the elevator down 5 floors to go home.

5. Which integer represents 10 degrees Fahrenheit below zero?

- a. 10
- b. 0
- c. -10
- d. 20

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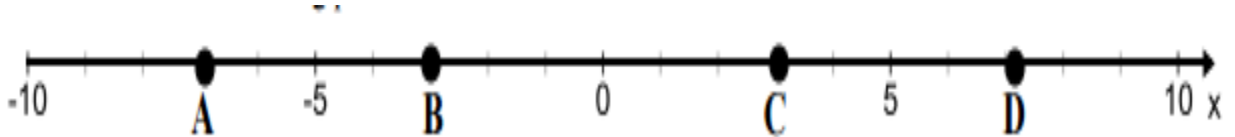
6. Which value is equal to -8 ?

- a. $-(-8)$
- b. $|8|$
- c. $|-8|$
- d. $-|-8|$

7. Which situation would you describe with a negative integer?

- a. A price increase of \$5
- b. A 10-yard gain in football
- c. A fall of 25 feet
- d. A helicopter at 200 feet above a landing pad

8. Which of the following points is found at -3 ?



- a. A
- b. B
- c. C
- d. D

Computation of Integers

9. Evaluate $-3 - 11 =$

- a. -14
- b. 8
- c. -8
- d. 14

10. At the start of the month, the value of an investment was \$48.45. By the end of the month, the value of the investment changed by a loss of \$13.80. What is the value, in dollars, of the investment at the end of the month?

- a. 62.25
- b. -34.65
- c. -13.80
- d. 34.65

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11. Evaluate $-15 + 6 =$

- a. 9
- b. 21
- c. -21
- d. -9

12. A submarine is 58 feet below sea level. An airplane is 264 feet above sea level/ How far above the submarine is the airplane?

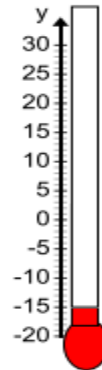
- a. 216 feet
- b. 322feet
- c. 312 feet
- d. 316 feet

13. Which expression has a value of -11?

- a. $7 + (4)$
- b. $-4 - (-7)$
- c. $-7 - (-4)$
- d. $-4 - (7)$

14. The thermometer shows the temperature at the North Pole when Chris woke up this morning. The temperature rose 20 degrees by noon. What was the temperature at noon?

- a. 0°
- b. -5
- c. 35
- d. 5



Computation of Decimals

15. Mr. Palmer had \$5,675.68 in his savings account. He then deposited \$2,168.79 more into his account. How much is in his savings account now?

- a. \$7,844.47
- b. \$7,843.37
- c. \$7,734.47
- d. \$7,733.37

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16. Barb had \$10 in her bank account. She used her debit card to pay \$41 for dinner. What is the new balance of her bank account after the \$41.00 is deducted?

- a. -51
- b. -31
- c. 31
- d. 51

17. Mr. Reilly brought the following three items at a music store. How much change did he receive from \$50.00?

- a. \$6.92
- b. \$7.08
- c. \$16.90
- d. \$43.08

CD \$18.10
CD Case \$15.00
Headphones \$9.98

Computation of Fractions

18. Find the sum $\frac{3}{8} + \frac{5}{6} =$

- a. $\frac{8}{14}$
- b. $\frac{15}{48}$
- c. $1\frac{5}{24}$
- d. $2\frac{9}{24}$

19. Find the difference $\frac{5}{6} - \frac{1}{2} =$

- a. $\frac{1}{3}$
- b. $\frac{1}{2}$
- c. $\frac{2}{3}$
- d. $\frac{5}{6}$

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Bonus +3 each

1. $8 \div \frac{1}{4} =$

2. $6\frac{1}{4} \div \frac{1}{2}$