

Inequalities (Addition and Subtraction)

1. 1. Solve the inequality: $w - 7 \leq -10$

1 point

Mark only one oval.

A -2

B -3

C 4

D 5

2. 2. Solve the inequality: $-7.5 \Rightarrow d - 10$

1 point

Mark only one oval.

A 2.5

B 3.5

C -2.5

D -3.5

3. 3. Solve the inequality: $x + \frac{3}{4} > 1.5$

1 point

Mark only one oval.

A $\frac{4}{5}$

B 0.75

C $\frac{1}{2}$

D 0.60

4. 4. Solve the inequality: $x + 7 \Rightarrow 18$

1 point

Mark only one oval.

A -10

B 11

C 10

D -11

5. 5. Solve the inequality: $8 + k < -3$

1 point

Mark only one oval.

A -10

B 11

C -11

D -12

6. 6. Solve the inequality: $-12 < y - 6$

1 point

Mark only one oval.

A -18

B -6

C -5

D -7

7. 7. Solve the inequality: $p + 1/4 > 2$

1 point

Mark only one oval.

A $3/4$

B $5/4$

C $7/4$

D $9/4$

8. 8. Solve the inequality: $2/7 > b + 5/7$

1 point

Mark only one oval.

A $-4/7$

B $-3/7$

C $-2/7$

D $-1/7$

9. 9. Solve the inequality: $-9.1 < d - 6.3$

1 point

Mark only one oval.

A -2.9

B -2.8

C -2.7

D -3.0

10. 10. Solve the inequality: $\frac{8}{5} > s + \frac{12}{5}$

1 point

Mark only one oval.

A $-\frac{3}{5}$

B $-\frac{4}{5}$

C -1

D 0

11. 11. Solve the inequality: $-\frac{7}{8} > m - \frac{13}{8}$

1 point

Mark only one oval.

A $\frac{3}{4}$

B 1

C $\frac{7}{8}$

D $\frac{5}{8}$

12. 12. Solve the inequality: $z - 4.7 > -1.6$

1 point

Mark only one oval.

A 3.1

B 3.2

C 3.0

D 0

13. 13. A small airplane can hold 44 passengers. Fifteen passengers board the plane. Write and solve an inequality that represents the additional number of passengers that can board the plane. 1 point

Mark only one oval.

- A 30
- B 44
- C 0
- D 59

14. 14. A circuit overloads at 2400 watts of electricity. A portable heater that uses 1050 watts of electricity is plugged into the circuit. Write and solve an inequality that represents the additional number of watts you can plug in without overloading the circuit. 1 point

Mark only one oval.

- A 1350 watts
- B 3450 watts
- C 2400 watts
- D 1400 watts

15. 15. Daliyah can spend up to \$35.55 on a shopping trip. She wants to buy a shirt that costs \$16.78. Write and solve an inequality that represents the amount of money she will have left to buy a pair of pants? 1 point

Mark only one oval.

- A \$18.97
- B \$18.87
- C \$18.77
- D \$18.67

16. 16. The perimeter of a triangle is less than 28 feet. Side one is 6.56 feet, side two is 7.77 feet and side three is "s" feet. Write and solve the inequality for the third side "s" feet. 1 point

Mark only one oval.

- A 14.33 feet
- B 13.67 feet
- C 14.27 feet
- D 13.53 feet

17. 17. Dahani earned \$174.59 in three weeks. He goes back to school in one more week. He needs at least \$289 to buy the new coat that he wants for school. How much must Dahani earn in the next week? Write the equation ONLY. 1 point

Mark only one oval.

- A $174.59 + c < 289$
- B $174.59 + c \leq 289$
- C $174.59 + c \Rightarrow 289$
- D $174.59 + c > 289$

18. 18. To get a free meal at her favorite restaurant, Teyana needs to spend \$59.80 or more at the restaurant. She has already spent \$30.12. How much more does Teyana need to spend to get her free meal? Write the equation ONLY. 1 point

Mark only one oval.

- A $30.12 + x > 59.80$
- B $30.12 + x \Rightarrow 59.80$
- C $30.12 + x \leq 59.80$
- D $30.12 + x < 59.80$

19. 19. Morgan goes to the jewel store to buy a bracelet that costs \$69.25, a ring which costs \$78.37, and a set of ear rings. All of these items are part of a matching set. If she only has at most \$235.40 to spend, how much can she spend on the ear rings? 1 point

Mark only one oval.

- A \$78.78
 B \$87.78
 C \$98.18
 D \$89.58

20. 20. Ashyra accepted a job as an architect. She is assigned to build a trapezoid shape building with a perimeter of at least 4200 Feet. The longest side length is 1575.42 feet, the two side widths are 872.19 feet each. What is the minimum length of the shortest side? Write and solve an inequality? 1 point

Mark only one oval.

- A 916.50 feet
 B 872.30 feet
 C 931.10 feet
 D 820.20 feet

21. 21. You can find the word of the day by going back and finding the answer to question #18. Use that letter a, b, c, or d, to answer this question. (This is your bonus point question). 1 point

Mark only one oval.

- A Smart
 B Endurance
 C Fortify
 D Think

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