

Inequalities (Multiplication and Division)

1. 1. Solve the inequality: $-6x > 18$

1 point

Mark only one oval.

A -2

B -3

C -4

D -1

2. 2. Solve the inequality: $x/-5 > 7$

1 point

Mark only one oval.

A -35

B -36

C -34

D -33

3. 3. What happens with an inequality when we divide a negative coefficient on both sides?

1 point

Mark only one oval.

A Symbol reverses

B Negative sign is changed

C The left and right side of the inequality is switched

D Everything stays the same

4. 4. Solve the inequality: $c/9 < -4$

1 point

Mark only one oval.

A -37

B -36

C -35

D -34

5. 5. Solve the inequality: $3x < -5/4$

1 point

Mark only one oval.

A $-15/4$

B $-5/12$

C $-1/4$

D $-1/2$

6. 6. Solve the inequality: $4.2y < -12.6$

1 point

Mark only one oval.

A -1.5

B -2.8

C -3.3

D 0

7. 7. The quotient of a number and 4 is at most 5. Write and solve the inequality. 1 point

Mark only one oval.

- A 20
- B 1.25
- C 0.8
- D can be done

8. 8. A number divided by 7 is less than -3. Write and solve the inequality. 1 point

Mark only one oval.

- A 2.33
- B -2.33
- C -21
- D -22

9. 9. Solve the inequality: $w/6 > 2.5$ 1 point

Mark only one oval.

- A 0
- B 12.5
- C 14.8
- D 17.2

10. 10. Solve the inequality: $11.3 > b/4.3$

1 point

Mark only one oval.

A 50.01

B 47.99

C 48.59

D 49.38

11. 11. Six times a number is at least -24. Write and solve an inequality.

1 point

Mark only one oval.

A -4.5

B -4.01

C -4.2

D -3.99

12. 12. The product of -2 and a number is greater than 30. Write and solve an inequality.

1 point

Mark only one oval.

A -18

B -15

C -12

D -9

13. 13. You earn \$9.20 per hour at your summer job. Write an inequality that represents the number of hours you need to work in order to buy a smart phone that costs \$299. 1 point

Mark only one oval.

- A $9.20z \leq 299$
- B $9.20z \geq 299$
- C $9.20z < 299$
- D $9.20z > 299$

14. 14. You have \$9.60 to buy avocados for a guacamole recipe. Avocados cost \$2.40 each. Write an inequality that represents the number of avocados you can buy. 1 point

Mark only one oval.

- A $2.40a < 9.60$
- B $2.40a \leq 9.60$
- C $2.40a > 9.60$
- D $2.40a \geq 9.60$

15. 15. You are moving some boxes that are 27 inches tall into a storage facility that is 12.5 feet high. Write an inequality that represents the number of boxes that you can stack vertically in the storage unit. 1 point

Mark only one oval.

- A $27b \geq 150$
- B $27b \geq 12.5$
- C $27b \leq 150$
- D $27b \leq 12.5$

16. 16. Scholars in a science class are divided into 6 equal groups with at least 4 scholars in each group for a project. Write an inequality that represents the number of scholars in the class. 1 point

Mark only one oval.

- A $x/6 < 4$
- B $x/6 > 4$
- C $x/6 \leq 4$
- D $x/6 \geq 4$

17. 17. It is currently 0 degree outside. The temperature is dropping 2.5 degrees every hour. Write and solve an inequality that represents the number of hours that must pass for the temperature to drop below -20 degrees. 1 point

Mark only one oval.

- A 7
- B 8.5
- C 7.5
- D 8

18. 18. Solve the inequality: $-9 < -x/5$ 1 point

Mark only one oval.

- A 40
- B 45
- C 50
- D 55

19. 19. Solve the inequality: $k/-0.25 < 36$

1 point

Mark only one oval.

A -10

B -9

C 0

D -11

20. 20. Solve the inequality: $-2.4 > b/-2.5$

1 point

Mark only one oval.

A 6.01

B 5.52

C 4.90

D 0

21. 21. You can find the word of the day by going back and finding the answer to question #5. 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 Equip

B Unique

C Breakout

D Fire

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