Two-Step Inequalities

1.   1. Solve the inequality: 8x + 4 < 36   1 point

    Mark only one oval.

    ⬭ A 5

    ⬭ B 3

    ⬭ C 4

    ⬭ D 6
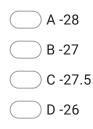
2.   2. Solve the inequality: 50 <= 15x – 25   1 point

    Mark only one oval.

    ⬭ A 5

    ⬭ B 1.67

    ⬭ C 3

    ⬭ D -1

3.   3. Solve the inequality: b/-3 + 4 < 13   1 point

    Mark only one oval.

    ⬭ A -28

    ⬭ B -27

    ⬭ C -27.5

    ⬭ D -26

4.   4. Solve the inequality: 5x − 4 => 11   1 point

Mark only one oval.

⬭ A x => 7/5

⬭ B x > 7/5

⬭ C x => 15/5

⬭ D x > 15/5

5.   5. Solve the inequality: −7(x + 3) <= 28   1 point

Mark only one oval.

⬭ A x <= -7

⬭ B x => -7

⬭ C x <= -1

⬭ D x => -1

6.   6. Solve the inequality: 9x − 4x + 4 => 36 − 12   1 point

Mark only one oval.

⬭ A x < 4

⬭ B x <= 4

⬭ C x > 4

⬭ D x => 4

7.   7. Solve the inequality: 3d – 7d + 2.8 < 5.8 – 27   1 point

Mark only one oval.

⬭ A d > 6

⬭ B d < 6

⬭ C d => 6

⬭ D d <= 6

8.   8. Solve the inequality: 6y – 7 > 5   1 point

Mark only one oval.

⬭ A 3

⬭ B 0

⬭ C 2

⬭ D 1

9.   9. Solve the inequality: 4 – 3d => 19   1 point

Mark only one oval.

⬭ A d => 5

⬭ B d => -5

⬭ C d <= -5

⬭ D d <= 5

10.   10. Solve the inequality: w/-4 + 8 > 9   1 point

Mark only one oval.

   ◯ A w > 4

   ◯ B w > -4

   ◯ C w < 4

   ◯ D w < -4

11.   11. A scuba diver is at an elevation of -38 feet. the diver starts moving at a   1 point
        rate of -12 feet per minute. Write and solve an inequality that represents how
        long it will take the diver to reach an elevation deeper than -200 feet.

Mark only one oval.

   ◯ A 13 mins

   ◯ B 13.5 mins

   ◯ C 13.8 mins

   ◯ D 13.3 mins

12.   12. A killer whale has eaten 75 pounds of fish today. It needs to eat at least   1 point
        195 pounds of fish each day. A bucket holds 15 pounds of fish. Write and
        solve an inequality that represents how many more buckets of fish does the
        whale needs to eat.

Mark only one oval.
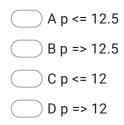
   ◯ A 7.5

   ◯ B 8

   ◯ C 7.7

   ◯ D 7

13. 13. You have $2.50. Each gumball in a gumball machine costs $0.25. Write an   1 point
     inequality that represents the number of gumballs you can buy.

     Mark only one oval.

     ⬭ A 2.5g => 250

     ⬭ B 2.5g <= 250

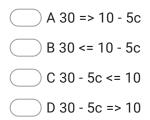   ⬭ C 0.25g <= 2.50

     ⬭ D 0.25g => 2.50

14. 14. You can spend no more than $100 on a party you are hosting. The cost   1 point
     per guest is $8. Write an inequality that represents the number of guests you
     can invite to the party.

     Mark only one oval.

     ⬭ A p <= 12.5

     ⬭ B p => 12.5

     ⬭ C p <= 12

     ⬭ D p => 12

15. 15. You have $30 to buy baseball cards. Each pack of cards costs $5. Write an   1 point
     inequality that represents the number of packs of baseball cards you can buy
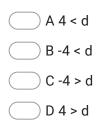   and still have at least $10 left.

     Mark only one oval.

     ⬭ A 30 => 10 - 5c

     ⬭ B 30 <= 10 - 5c

     ⬭ C 30 - 5c <= 10

     ⬭ D 30 - 5c => 10

16.   16. Solve the inequality: –0.6 > –0.3(d + 6)   1 point

Mark only one oval.

○ A 4 < d

○ B -4 < d

○ C -4 > d

○ D 4 > d

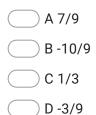17.   17. Solve the inequality: –5.2 => p/4   1 point

Mark only one oval.

○ A -20.8 <= p

○ B -20.8 > p

○ C -20.8 => p

○ D -20.8 < p

18.   18. Solve the inequality: –2/9 + y <= 5/9   1 point

Mark only one oval.

○ A 7/9

○ B -10/9

○ C 1/3

○ D -3/9

19.   19. A number k plus 19.5 is less than or equal to 40. Write an inequality.   1 point
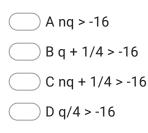
Mark only one oval.

  ⬭ A 19.5k <= 40

  ⬭ B nk + 19.5 <= 40

  ⬭ C k <= 19.5 + 40

  ⬭ D k + 19.5 <= 40

20.   20. A number q multiplied by 1/4 is greater than -16. Write an inequality.   1 point

Mark only one oval.

  ⬭ A nq > -16

  ⬭ B q + 1/4 > -16

  ⬭ C nq + 1/4 > -16

  ⬭ D q/4 > -16

21.   21. You can find the word of the day by going back and finding the answer to   1 point
       question #14. Use that letter a, b, c, or d, to answer this question. (This is your
       bonus point question)

Mark only one oval.

  ⬭ A Fierce

  ⬭ B Diligent

  ⬭ C Bright

  ⬭ D Efficient

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