QUIZIZZ

NAME : _____

CLASS : _____

DATE : _____

Solving Equations and Inequalities Review

30 Questions

1. x + 12 = 20

☐ a) x = 32

☐ b) x = -32

☐ c) x = 8

☐ d) x = -8

2. 6b = 30

☐ a) x = 36

☐ b) x = 24

☐ c) x = 180

☐ d) x = 5

3. Solve for x:

$$\frac{x}{5} = 2$$

☐ a) x = 20

☐ b) x = 7

☐ c) x = 10

☐ d) x = 3

4. Which equation has x = 5 as the solution?

☐ a) x + 15 = 10

☐ b) 2x = 5

☐ c) 2x = 10

5. What equation matches this situation?
Robyn had some video games then bought 4 more. Now she has a total of 10 games.

☐ a) v - 4 = 10

☐ b) v + 4 = 10

☐ c) 10 - 4 = v

☐ d) Answer not Given

6. What is the inverse operation needed to solve for p?
765 = p - 254

☐ a) subtraction

☐ b) addition

☐ c) multiplication

☐ d) division

7. Write an equation for
17 less than H equals 42

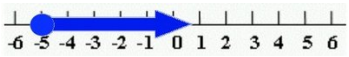
- ☐ a) 17-H=42
- ☐ b) H-17=42
- ☐ c) H+17=42
- ☐ d) 17+H=42

8. Ted bought a dolphin poster for $12. He now has $5. Write and solve a subtraction equation to find out how much money Ted took to the aquarium.

- ☐ a) m - 12 = 5
- ☐ b) m - 5 = 12
- ☐ c) m + 5 = 12
- ☐ d) m + 12 = 5

9. write an equation for
6 times z is the same as 48

- ☐ a) 6(48)=z
- ☐ b) 6-48=z
- ☐ c) 6z=48
- ☐ d) 48z=6

10. 

What inequality does the number line graph represent?

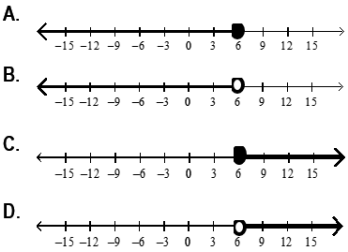
- ☐ a) x > 5
- ☐ b) x < −5
- ☐ c) x ≥ 5
- ☐ d) x ≥ −5

11. When you graph an inequality, you use a closed dot when you use which symbols?

- ☐ a) ≤, ≥
- ☐ b) <, >
- ☐ c) ≤, <
- ☐ d) ≥, >

12. When graphing an inequality, you use an open dot when you use which symbol?

- ☐ a) <, >
- ☐ b) ≤, ≥
- ☐ c) ≤, <
- ☐ d) ≥, >

13. 

Pick the correct letter for:
6 > x

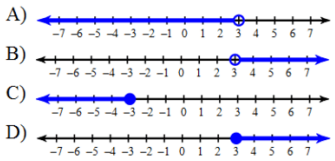
- ☐ a) A
- ☐ b) B
- ☐ c) C
- ☐ d) D

14. What are two numbers that could be x in x < 8?

☐ a) 8.6, 7.9
☐ b) 11, 16
☐ c) 0.8, 5.9
☐ d) 12, 7.1

15. Would you use a closed or open circle to graph x < 3?

☐ a) Closed
☐ b) Open

16. 

Which graph matches the inequality k < 3?

☐ a) A
☐ b) B
☐ c) C
☐ d) D

17. c - 7 > 8

☐ a) c < 15
☐ b) c > 15
☐ c) c < - 15
☐ d) c >, = 15

18. x + 6 ≥ 10

☐ a) x > 4
☐ b) x ≥ 4
☐ c) x ≥ 16
☐ d) x > 16

19. x is less than or equal to 24

☐ a) x > 24
☐ b) x < 24
☐ c) x ≤ 24
☐ d) x ≥ 24

20. Judy is saving to buy a pair of shoes that cost $120. She has saved $30 and is going to save $25 a week. Which equation will show her how many weeks she must save?

☐ a) 30 + 25w = 120
☐ b) 55w = 120
☐ c) 30w + 25w = 120
☐ d) 120 + 30 = 25w

21. Solve.
(x/4) + 10 = 34

☐ a) x = 4
☐ b) x = 6
☐ c) x = 96
☐ d) x = 144

22. $\frac{2x-3}{4}=9$

Solve.
(2x - 3) / 4 = 9

☐ a) x = 24
☐ b) x = 12
☐ c) x = 17.5
☐ d) x = 19.5

23. Solve:
2x + 1 = 2x - 1

☐ a) No Solution
☐ b) x = 0
☐ c) Infinitely Many Solutions

24. $p=\frac{w}{a}$

Solve for a.

☐ a) a = pw
☐ b) a = p/w
☐ c) a = w/p
☐ d) a = w + p

25. $y=\frac{x-v}{b}$

Solve for x:

☐ a) x = yb - v
☐ b) x = by - v
☐ c) x = by + v

26. Brett has a $30 online gift voucher. He plans to buy as many books as he can. The cost of each book is $4. There is also a single shipping charge of $2. How many books can he afford without spending more than his gift voucher amount?

☐ a) 4x + 2 < 30
☐ b) 4x + 2 ≤ 30
☐ c) 4x + 2 > 30
☐ d) 4x + 2 ≥ 30

27. Four times a number, increased by 6 is greater than 22.
Which inequality models this scenario?

☐ a) 4x - 6 > 22
☐ b) 4x + 6 < 22
☐ c) 4x + 6 ≥ 22
☐ d) 4x + 6 > 22

28. $6(b-11) > -51 + 3b$ What values of x make the inequality true>

- ☐ a) b > 5
- ☐ b) b > -5
- ☐ c) b > -6
- ☐ d) b > 6

29. solve 5(6 + 3r) + 7 ≥ 127

- ☐ a) r ≤ 6
- ☐ b) r ≥ 6
- ☐ c) r ≤ -6
- ☐ d) r ≥ -6

30. Solve the following inequality:
-4x + 14 ≤ 54

- ☐ a) x ≥ -10
- ☐ b) x ≤ -10
- ☐ c) x ≥ 17
- ☐ d) x ≤ 17

Answer Key

1. c
2. d
3. c
4. c
5. b
6. b
7. b
8. a
9. c
10. d
11. a
12. a
13. b
14. c
15. b
16. a
17. b
18. b
19. c
20. a
21. c
22. d
23. a
24. c
25. c
26. b
27. d
28. a
29. b
30. a