Cotuz

Name: _____ Date: _____

One-Step Equations and Inequalities

Grade 6 · Ages 11-12 · Math · Expressions & Equations · ★★

Find the value of x and write it on the line: a decimal with a point, like 0.8, or a fraction in simplest form. For a multiple-choice question, circle the value that makes the inequality true, or the inequality that matches the story.

1. Which value of x makes $x + 19 \leq 26$ true?

(A) 9 (B) 8
(C) 7 (D) 10

2. $x - 0.1 = 7.2$ _____

3. Which value of x makes $8x < 48$ true?

(A) 6 (B) 8
(C) 7 (D) 4

4. $x - 0.3 = 2.9$ _____

5. $x - 0.4 = 1.1$ _____

6. Which value of x makes $x + 11 \geq 23$ true?

(A) 9 (B) 14
(C) 10 (D) 11

7. Which value of x makes $x - 17 > 16$ true?

(A) 34 (B) 33
(C) 31 (D) 32

8. $x + 0.2 = 7.9$ _____

9. $x + 0.1 = 2.7$ _____

10. A lift can carry at most 7 people. Which inequality shows the number of people p it can carry?

(A) $p \leq 7$ (B) $p > 7$
(C) $p \geq 7$ (D) $p < 7$

11. $x + 2/5 = 4/5$ _____

12. $x - 0.6 = 0.7$ _____

13. $x - 1/8 = 7/8$ _____

14. $x - 0.1 = 7.9$ _____

15. A parcel must have a mass of less than 8 kg to go by post. Which inequality shows the mass m of the parcel?

(A) $m \geq 8$ (B) $m \leq 8$
(C) $m > 8$ (D) $m < 8$

16. The deep end of a pool is more than 3 m deep. Which inequality shows the depth d of the deep end?

(A) $d < 3$ (B) $d \leq 3$
(C) $d > 3$ (D) $d \geq 3$

17. $x + 0.9 = 6.1$ _____

18. $x + 3/5 = 4/5$ _____

19. $x - 0.6 = 9.8$ _____

20. $x - 1/2 = 1/2$ _____

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ANSWER KEY

One-Step Equations and Inequalities

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1. Which value of x makes x + 19 ≤ 26 true?
Answer: (C) 7

2. x − 0.1 = 7.2 **7.3**

3. Which value of x makes 8x < 48 true?
Answer: (D) 4

4. x − 0.3 = 2.9 **3.2**

5. x − 0.4 = 1.1 **1.5**

6. Which value of x makes x + 11 ≥ 23 true?
Answer: (B) 14

7. Which value of x makes x − 17 > 16 true?
Answer: (A) 34

8. x + 0.2 = 7.9 **7.7**

9. x + 0.1 = 2.7 **2.6**

10. A lift can carry at most 7 people. Which inequality shows the number of people p it can carry?
Answer: (A) p ≤ 7

11. x + 2/5 = 4/5 **2/5**

12. x − 0.6 = 0.7 **1.3**

13. x − 1/8 = 7/8 **1**

14. x − 0.1 = 7.9 **8.0**

15. A parcel must have a mass of less than 8 kg to go by post. Which inequality shows the mass m of the parcel?
Answer: (D) m < 8

16. The deep end of a pool is more than 3 m deep. Which inequality shows the depth d of the deep end?
Answer: (C) d > 3

17. x + 0.9 = 6.1 **5.2**

18. x + 3/5 = 4/5 **1/5**

19. x − 0.6 = 9.8 **10.4**

20. x − 1/2 = 1/2 **1**