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.** $x - 0.1 = 4.0$ _____

**2.** Which value of x makes $x - 2 \leq 11$ true?

(A) 15 (B) 14
(C) 13 (D) 16

**3.** Which value of x makes $x - 4 \geq 5$ true?

(A) 9 (B) 6
(C) 7 (D) 8

**4.** $x - 0.8 = 2.6$ _____

**5.** Which value of x makes $x + 8 < 12$ true?

(A) 5 (B) 1
(C) 6 (D) 4

**6.** $x - 0.5 = 3.1$ _____

**7.** $x - 0.3 = 8.3$ _____

**8.** Which value of x makes $x + 7 > 14$ true?

(A) 5 (B) 6
(C) 7 (D) 8

**9.** $x - 0.9 = 7.9$ _____

**10.** A child must be at least 112 cm tall to go on the ride. Which inequality shows a height h that is allowed?

(A) $h \geq 112$ (B) $h < 112$
(C) $h > 112$ (D) $h \leq 112$

**11.** $x + 1/10 = 9/10$ _____

**12.** $x + 0.3 = 10.0$ _____

**13.** $x - 0.5 = 6.9$ _____

**14.** A box can hold at most 22 kg. Which inequality shows the mass m it can hold?

(A) $m \geq 22$ (B) $m > 22$
(C) $m < 22$ (D) $m \leq 22$

**15.** $x - 1/8 = 3/8$ _____

**16.** A tank must hold at least 50 L of water. Which inequality shows the amount of water w it must hold?

(A) $w < 50$ (B) $w > 50$
(C) $w \geq 50$ (D) $w \leq 50$

**17.** $x + 0.2 = 2.2$ _____

**18.** $x + 1/4 = 3/4$ _____

**19.** $x - 1/5 = 2/5$ _____

**20.** $x - 0.3 = 2.2$ _____

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ANSWER KEY

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**1.** x − 0.1 = 4.0 **4.1**

**2.** Which value of x makes x − 2 ≤ 11 true?
**Answer: (C) 13**

**3.** Which value of x makes x − 4 ≥ 5 true?
**Answer: (A) 9**

**4.** x − 0.8 = 2.6 **3.4**

**5.** Which value of x makes x + 8 < 12 true?
**Answer: (B) 1**

**6.** x − 0.5 = 3.1 **3.6**

**7.** x − 0.3 = 8.3 **8.6**

**8.** Which value of x makes x + 7 > 14 true?
**Answer: (D) 8**

**9.** x − 0.9 = 7.9 **8.8**

**10.** A child must be at least 112 cm tall to go on the ride. Which inequality shows a height h that is allowed?
**Answer: (A) h ≥ 112**

**11.** x + 1/10 = 9/10 **4/5**

**12.** x + 0.3 = 10.0 **9.7**

**13.** x − 0.5 = 6.9 **7.4**

**14.** A box can hold at most 22 kg. Which inequality shows the mass m it can hold?
**Answer: (D) m ≤ 22**

**15.** x − 1/8 = 3/8 **1/2**

**16.** A tank must hold at least 50 L of water. Which inequality shows the amount of water w it must hold?
**Answer: (C) w ≥ 50**

**17.** x + 0.2 = 2.2 **2.0**

**18.** x + 1/4 = 3/4 **1/2**

**19.** x − 1/5 = 2/5 **3/5**

**20.** x − 0.3 = 2.2 **2.5**