1. What is the value of x if 4x - 9 = 11?

Α	$\frac{1}{2}$	С	5
В	2	D	20

2. What is the value of *x* in the equation 24 - 2x = 16?

Α	4	С	12
В	8	D	20

3. Solve the given equation for *x*.

$$8 - \frac{6}{5}x = 10$$

Α	$-3\frac{1}{5}$	С	<u>5</u> 3
В	$-\frac{5}{3}$	D	$3\frac{1}{5}$

4. Which value for x makes the following equation true?

$$\frac{x}{9} + 16 = 20$$
A $\frac{4}{9}$
C 13
B $\frac{20}{9}$
D 36

- **5.** What is the value of x in 4x 2 = 10?
- A
 0.5
 C
 3

 B
 2
 D
 5
- 6. What is the solution to this equation?

$$2a + 5 = 15$$

 A
 a = 12
 C
 a = 8

 B
 a = 10
 D
 a = 5

7. What is the value of x if 7 - 9x = 10?



8. What is the value of *w* in the equation 82 = 9w + 10?

Α	2	С	63
В	8	D	101

9. The model below represents the equation 2x + 1 = 7.



B $\frac{\frac{6}{31}}{7}$ **D** 13

13. Which value of *x* will make the equation 12x - 30 = 6 true?

- A -3 C 2 B -2 D 3
- **14.** What is the value of *x* if 5x + 55 = 35?
- A
 -4
 C
 18

 B
 -20
 D
 90

15. Which value for w makes the equation true?

$$-8w + 2 = 3$$

Δ	1_	C	8
~	2	Ŭ	0
R	1_	П	a
D	8		3

16. Which number is the solution to the following equation?

$$-\frac{1}{2}n + 6 = -10$$
A $-\frac{31}{2}$
C -8
B $\frac{10}{3}$
D 32

17. What is the first step to solve for *q* in the equation 8q + 6 = 72?

A 8q + 6 + 6 = 72 + 6 **B** 8q + 6 - 6 = 72 - 6 **C** $\frac{8q + 6}{8} = \frac{72}{6}$ **D** $8 \times (8q + 6) = 72 \times 8$

18. What value of *x* makes the equation $-4 + \frac{1}{2}x = 8$ true?

- **A** 6 **C** 12
- **B** 8 **D** 24

19. What is the value of x if $\frac{x}{4} + 2 = 15$?

20. The figure below models the equation 2x + 3 = 15.



What is the value of *x*?

Α	15	С	6
В	12	D	2

21. Which value for x makes the following equation true?

$$-2x - 4 = -6$$

Α	1	С	-1
В	0	D	5

22. What value of *y* will make the equation $\frac{y}{2} - 2 = 3$ true?

Α	2	С	8
В	5	D	10