

A4-Equations

19

If $3p - 2 \geq 1$, what is the least possible value of $3p + 2$?

- A) 5
- B) 3
- C) 2
- D) 1

11

Which of the following numbers is NOT a solution of the inequality $3x - 5 \geq 4x - 3$?

- A) -1
- B) -2
- C) -3
- D) -5

1

If $\frac{x-1}{3} = k$ and $k = 3$, what is the value of x ?

- A) 2
- B) 4
- C) 9
- D) 10

16

If $t > 0$ and $t^2 - 4 = 0$, what is the value of t ?

17

$$2(p + 1) + 8(p - 1) = 5p$$

What value of p is the solution of the equation above?

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1

If $5x + 6 = 10$, what is the value of $10x + 3$?

- A) 4
- B) 9
- C) 11
- D) 20

2

If $3r = 18$, what is the value of $6r + 3$?

- A) 6
- B) 27
- C) 36
- D) 39

17

If $\frac{7}{9}x - \frac{4}{9}x = \frac{1}{4} + \frac{5}{12}$, what is the value of x ?

7

If $\frac{3}{5}w = \frac{4}{3}$, what is the value of w ?

- A) $\frac{9}{20}$
- B) $\frac{4}{5}$
- C) $\frac{5}{4}$
- D) $\frac{20}{9}$

9

$$\sqrt{x-a} = x-4$$

If $a = 2$, what is the solution set of the equation above?

- A) $\{3, 6\}$
- B) $\{2\}$
- C) $\{3\}$
- D) $\{6\}$

8

If $\frac{a}{b} = 2$, what is the value of $\frac{4b}{a}$?

- A) 0
- B) 1
- C) 2
- D) 4

4

If $3(c+d) = 5$, what is the value of $c+d$?

- A) $\frac{3}{5}$
- B) $\frac{5}{3}$
- C) 3
- D) 5

5

$$\sqrt{k+2} - x = 0$$

In the equation above, k is a constant. If $x = 9$, what is the value of k ?

- A) 1
- B) 7
- C) 16
- D) 79