1) Explain the Multiplication Property of Equality in your own words.

2) Explain the Division Property of Equality in your own words.

Solve each equation:

3) $5x = 10$

4) $\dfrac{x}{2} = 3$

5) $15 = 3m$

6) $-6 = 2m$

7) $x \div 4 = 6$

8) $7 = \dfrac{x}{8}$

9) $-6x = 42$

10) $\dfrac{x}{-7} = 3$

11) $-4 = -2x$

12) $\dfrac{x}{-12} = -10$

13) $x \div -16 = 3$

14) $-x = 5$

15) $2x = 1$

16) $-4x = 3$

17) $-n = -29$

Solve each equation for x:

18) $ax = b$

19) $x - a = b$

20) $5x = ab$

21) $\dfrac{x}{b} = a$

22) $x + a = b$

23) $\dfrac{x}{-a} = b$

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Answer Key

1) You can multiply the same value to both sides of an equation
2) You can divide the same value from both sides of an equation
3) 2
4) 6
5) 5
6) -3
7) 24
8) 56
9) -7
10) -21
11) 2
12) 120
13) -48
14) -5
15) ½
16) -¾
17) 29
18) x = b/a
19) x = b + a
20) x = ab/5
21) x = ab
22) x = b – a
23) x = -ab