

One-step equations

Solve each equation. Show your working, and write the answer on the line.

Name _____ Date _____

1. $6x = 30$

x = _____

2. $\frac{x}{4} = 9$

x = _____

3. $72 = 6x$

x = _____

4. $\frac{x}{2} = 10$

x = _____

5. $5x = 45$

x = _____

6. $\frac{x}{2} = 6$

x = _____

7. $7x = 56$

x = _____

8. $10 = \frac{x}{3}$

x = _____

9. $16 = 2x$

x = _____

10. $\frac{x}{2} = 11$

x = _____

11. $7x = 84$

x = _____

12. $\frac{x}{2} = 7$

x = _____

13. $90 = 9x$

x = _____

14. $\frac{x}{10} = 6$

x = _____

15. $66 = 11x$

x = _____

16. $\frac{x}{12} = 2$

x = _____

17. $9x = 63$

x = _____

18. $\frac{x}{11} = 7$

x = _____

19. $5x = 30$

x = _____

20. $10 = \frac{x}{4}$

x = _____

One-step equations: answer key

Each equation worked one step a line. What was done to both sides is beside each step.

1. **$6x = 30$**

$x = 5$ Divide both sides by 6.

Check: $6(5) = 30$

2. **$\frac{x}{4} = 9$**

$x = 36$ Multiply both sides by 4.

Check: $\frac{36}{4} = 9$

3. **$72 = 6x$**

$12 = x$ Divide both sides by 6.

$x = 12$

Check: $72 = 6(12)$

4. **$\frac{x}{2} = 10$**

$x = 20$ Multiply both sides by 2.

Check: $\frac{20}{2} = 10$

5. **$5x = 45$**

$x = 9$ Divide both sides by 5.

Check: $5(9) = 45$

6. **$\frac{x}{2} = 6$**

$x = 12$ Multiply both sides by 2.

Check: $\frac{12}{2} = 6$

7. **$7x = 56$**

$x = 8$ Divide both sides by 7.

Check: $7(8) = 56$

8. **$10 = \frac{x}{3}$**

$30 = x$ Multiply both sides by 3.

$x = 30$

Check: $10 = \frac{30}{3}$

9. **$16 = 2x$**

$8 = x$ Divide both sides by 2.

$x = 8$

Check: $16 = 2(8)$

10. **$\frac{x}{2} = 11$**

$x = 22$ Multiply both sides by 2.

Check: $\frac{22}{2} = 11$

11. **$7x = 84$**

$x = 12$ Divide both sides by 7.

Check: $7(12) = 84$

12. **$\frac{x}{2} = 7$**

$x = 14$ Multiply both sides by 2.

Check: $\frac{14}{2} = 7$

13. **$90 = 9x$**

$10 = x$ Divide both sides by 9.

$x = 10$

Check: $90 = 9(10)$

14. **$\frac{x}{10} = 6$**

$x = 60$ Multiply both sides by 10.

Check: $\frac{60}{10} = 6$

15. **$66 = 11x$**

$6 = x$ Divide both sides by 11.

$x = 6$

Check: $66 = 11(6)$

16. **$\frac{x}{12} = 2$**

$x = 24$ Multiply both sides by 12.

Check: $\frac{24}{12} = 2$

17. **$9x = 63$**

$x = 7$ Divide both sides by 9.

Check: $9(7) = 63$

18. **$\frac{x}{11} = 7$**

$x = 77$ Multiply both sides by 11.

Check: $\frac{77}{11} = 7$

19. **$5x = 30$**

$x = 6$ Divide both sides by 5.

Check: $5(6) = 30$

20. **$10 = \frac{x}{4}$**

$40 = x$ Multiply both sides by 4.

$x = 40$

Check: $10 = \frac{40}{4}$