Solving Basic Equations
No Calculator

Khan Academy Link: https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-one-step-mult-div-equations/v/solving-one-step-equations-2

1. $\left(\dfrac{1}{2}\right)x = \dfrac{2}{3}$

2. $\left(\dfrac{2}{3}\right)x = \dfrac{7}{9}$

3. $\left(\dfrac{2}{3}\right)x = \dfrac{11}{12}$

4. $\left(\dfrac{4}{5}\right)x = \dfrac{3}{4}$

5. $\left(\dfrac{3}{8}\right)x = \dfrac{3}{5}$

6. $\left(\dfrac{2}{3}\right)x = \dfrac{13}{14}$

7. $\left(\dfrac{3}{8}\right)x = \dfrac{5}{8}$

8. $\left(\dfrac{8}{9}\right)x = \dfrac{13}{15}$

9. $\left(\dfrac{4}{7}\right)x = \dfrac{7}{8}$

10. $\left(\dfrac{8}{11}\right)x = \dfrac{13}{14}$

11. $\left(\dfrac{2}{3}\right)x = \dfrac{1}{2}$

12. $\left(\dfrac{3}{4}\right)x = \dfrac{5}{6}$

13. $\left(\dfrac{1}{2}\right)x = \dfrac{5}{9}$

14. $\left(\dfrac{8}{13}\right)x = \dfrac{4}{5}$

15. $\left(\dfrac{6}{7}\right)x = \dfrac{9}{10}$

1. $3x + 7 = 16$
2. $2x + 3 = 17$
3. $7x + 3 = 59$
4. $5x + 7 = 47$
5. $2x + 3 = 17$
6. $6x + 8 = 20$
7. $2x + 7 = 21$
8. $8x + 6 = 70$
9. $4x + 9 = 33$
10. $5x + 2 = 42$
11. $7x + 6 = 55$
12. $6x + 6 = 48$
13. $6x + 8 = 26$
14. $7x + 6 = 55$
15. $2x + 7 = 15$

Answers
1. $\dfrac{4}{3}$
2. $\dfrac{7}{6}$
3. $\dfrac{11}{8}$
4. $\dfrac{15}{16}$
5. $\dfrac{8}{5}$
6. $\dfrac{39}{28}$
7. $\dfrac{5}{3}$
8. $\dfrac{39}{40}$
9. $\dfrac{49}{32}$
10. $\dfrac{143}{112}$
11. $\dfrac{3}{4}$
12. $\dfrac{10}{9}$
13. $\dfrac{10}{9}$
14. $\dfrac{13}{10}$
15. $\dfrac{21}{20}$

Answers
1. x=3
2. x=7
3. x=8
4. x=8
5. x=7
6. x=2
7. x=7
8. x=8
9. x=6
10. x=8
11. x=7
12. x=7
13. x=3
14. x=7
15. x=4