

Skill 3 (Solving One-Variable Equations) Worksheet

(S3a) Solve.

1) $3 + 7(c - 1) = 4c - (c + 1)$

2) $\frac{2u + 1}{6} + \frac{u + 5}{3} = -\frac{11}{12}$

3) $\frac{5x}{2} - \frac{x - 4}{3} = \frac{3x - 1}{2}$

4) $7r + 3 - 8r = 4(r - 1) - \frac{1}{2}(10r - 14)$

5) $8y - 3 + 2y = 5y - 17$

6) $\frac{3 + m}{5} = \frac{m}{2} - 4$

(S3a) Solve.

7) $\frac{1}{3}(6x+9)=5x-4$

8) $\frac{1}{5}-3x+7=\frac{x}{2}$

9) $17+12w-20=17w-5-21w$

10) $5-(2d+5)=3(2d-4)-3$

11) $\frac{3-2u}{4}+\frac{1}{3}=u-\frac{u}{6}$

12) $7-2(2x+7)=-(3x-5)-x$

Skill 3 (One-Variable Equations) Answer Key

1) $c = \frac{3}{4}$

2) $u = -\frac{33}{8} = -4\frac{1}{8}$

3) $x = -\frac{11}{4} = -2\frac{3}{4}$

4) Infinite many solutions (Identity)

5) $y = -\frac{14}{5} = -2\frac{4}{5}$

6) $m = \frac{46}{3} = 15\frac{1}{3}$

7) $x = \frac{7}{3} = 2\frac{1}{3}$

8) $x = \frac{72}{35} = 2\frac{2}{35}$

9) $w = -\frac{1}{8}$

10) $d = \frac{15}{8} = 1\frac{7}{8}$

11) $u = \frac{13}{16}$

12) No Solutions