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Year 7 Simple Equations with Fractions

Question 1 – One Step Equations with Fractions

Simplify the following:

a. $\frac{a}{3} = 4$	b. $\frac{b}{6} = 9$
c. $\frac{m}{11} = 1$	d. $\frac{y}{9} = 3$
e. $\frac{n}{7} = \frac{2}{3}$	f. $\frac{w}{4} = \frac{7}{8}$
g. $\frac{2}{b} = \frac{2}{5}$	h. $\frac{3}{a} = \frac{1}{3}$
i. $\frac{10}{e} = \frac{2}{7}$	j. $\frac{5}{t} = 8$
k. $\frac{e}{9} = -6$	l. $\frac{8}{d} = -3$

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Question 2 – Two Step Equations with Fractions

Simplify the following:

a. $\frac{2y}{7} = 4$	b. $\frac{3d}{5} = 9$
c. $\frac{3a}{4} = 12$	d. $\frac{-e}{2} = 4$
e. $-10 + \frac{a}{6} = 2$	f. $\frac{u}{4} - 2 = -6$
g. $\frac{x+3}{8} = 4$	h. $\frac{7+k}{5} = 6$
i. $\frac{8w}{6} = -5$	j. $8 + \frac{y}{7} = -5$
k. $\frac{e-1}{9} = 6$	l. $\frac{2}{p} - 4 = -8$

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Question 3 – Three Step Equations with Fractions

Simplify the following:

a. $\frac{3y-1}{2}=10$	b. $\frac{3d-5}{2}=8$
c. $\frac{5-3m}{2}=1$	d. $\frac{2n+9}{6}=4$
e. $\frac{2x+2}{3}=4$	f. $5=\frac{3c-6}{2}$
g. $\frac{6a}{5}+3=9$	h. $3-\frac{4u}{3}=5$
i. $4=\frac{2q}{5}+4$	j. $1+\frac{3k}{2}=4$
k. $11-\frac{3f}{2}=2$	l. $5+\frac{3k}{2}=-7$