L7
Grade C
Progression : Quick

Solving Linear Equations (D)

Solve the equations and leave your answers as simplified fractions or as decimals.

Section A

1) $\frac{2x+5}{3}=11$

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

3) $\frac{5-9x}{6}=-2$

4) $\frac{7x+6}{3}-9=-12$

5) $8x+\frac{1-4x}{8}=7$

6) $\frac{5}{x}=-6$

7) $\frac{11}{4x}+9=3$

8) $5-\frac{3x}{4}=8x$

9) $2+\frac{4x}{3}-7=1$

10) $4-\frac{3x}{2}=3x+5$

11) $6-\frac{2}{x}=10$

12) $4-\frac{2x}{9}+x=-1$

Section B

1) $4(2x-3)=8(2x+5)$

2) $3(4x-5)=5(2x-5)$

3) $8(6x+2)=5(x-2)$

4) $2(3x-4)=7(11-2x)$

5) $7(5-x)=-4(x-11)$

6) $-4(x-8)=-6(4+3x)$

7) $7(4-3x)=2(8x-9)+6$

8) $-6(3-4x)+2x=8(x+11)$

9) $3(2x-6)=3-4(3-x)$

10) $9(2x-1)-3x=3(12+x)$

11) $4x-(2x-8)=5(1+2x)$

12) $10-6(8x-2)=9x-(3+4x)$

Section C

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

2) $\frac{7x-8}{5}=\frac{2x+5}{4}$

3) $\frac{-8x-1}{2}=\frac{5-3x}{6}$

4) $\frac{5(x+11)}{3}=\frac{3(1+x)}{2}$

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

6) $\frac{2(3x-5)}{3}=\frac{-4(x-2)}{7}$

7) $\frac{1}{2}(2x-6)=\frac{1}{4}(8-12x)$

8) $\frac{1}{2}(5x+7)=\frac{3}{4}(3x-1)$

9) $\frac{5}{3x+1}=12$

10) $\frac{x+2}{x+3}=4$

11) $\frac{2x-9}{3x-2}=-3$

12) $\frac{2}{3x+10}=\frac{1}{x-1}$

13) $\frac{2}{7x+3}=\frac{9}{2x-5}$

14) $\frac{8}{6x+12}=-\frac{11}{7x-10}$