S.2 MATH WORKSHEET THREE ANSWERS

1. Simplify the following expressions

(a) $\frac{m+1}{2}+\frac{m-3}{2}$ $= \boldsymbol{m-1}$	(b) $\frac{2w+1}{2}-\frac{6w-2}{4}$ $= \boldsymbol{\frac{-w+2}{2}\ or\ \frac{2-w}{2}}$
(c) $\frac{y+6}{5}+\frac{2y-5}{15}$ $= \boldsymbol{\frac{5y+13}{15}}$	(d) $\frac{5-2n}{4}+\frac{3p-1}{2}$ $= \boldsymbol{\frac{6p-2n+3}{4}}$
(e) $\frac{3x+4}{11}+\frac{2x}{33}$ $= \boldsymbol{\frac{11x+12}{33}}$	(f) $\frac{v}{2}-\frac{v+1}{4}$ $= \boldsymbol{\frac{v-1}{4}}$
(g) $x+2a-\frac{3x-1}{4}-\frac{2a}{5}$ $= \boldsymbol{\frac{5x+32a+5}{20}}$	(h) $\frac{x-1}{2}-\frac{1}{3}+\frac{x}{3}$ $= \boldsymbol{\frac{5}{6}(x-1)}$
(i) $\frac{4a}{7}+\frac{3a+5}{2}-\frac{3(a+2)}{3}$ $= \boldsymbol{\frac{28a+33}{14}}$	(j) $\frac{3p}{12}-\left(\frac{p}{2}-\frac{p}{4}+\frac{5p}{6}\right)$ $= \boldsymbol{-\frac{5p}{6}}$

2. Solve the following equations

(a) $\frac{5x+2}{3}-\frac{7x+2}{5}=2$ $x=6\frac{1}{2}$	(b) $\frac{3}{4}(2a+1)=\frac{5}{6}(a+5)$ $a=5\frac{1}{8}$
(c) $\frac{n-1}{2}-\frac{n-3}{4}=\frac{1}{2}$ $n=1$	(d) $\frac{2}{2}-\frac{x+1}{4}=\frac{x}{3}+2$ $x=-2\frac{1}{7}$
(e) $\frac{n+1}{2}-\frac{n-3}{4}=\frac{n+2}{3}$ $n=7$	(f) $\frac{4p-1}{3}-\frac{3p-1}{2}=\frac{5-2p}{4}$ $p=3\frac{1}{4}$
(g) $\frac{1}{5}(w+6)-\frac{1}{15}(2w-5)=\frac{1}{3}(1-w)$ $w=-3$	(h) $\frac{1}{2}-\frac{x}{6}=-\frac{5}{2}$ $x=18$
(i) $\frac{4p-1}{3}-\frac{3p-1}{2}=1$ $p=-5$	(j) $\frac{x+1}{3}+\frac{x-4}{2}=5$ $x=8$

END.