## CLASS NOTES-ANSWERS

## EXERCISE 2.1

1. Solve the following equations.
(a) $x-2=7$
(b) $y+3=10$
(c) $6=z+2$
(d) $\frac{3}{7}+x=\frac{17}{7}$
(e) $6 x=12$
(f) $\frac{t}{5}=10$
(g) $\frac{2 x}{3}=18$
(h) $1.6=\frac{y}{1.5}$
(i) $7 x-9=16$
(j) $14 y-8=13$
(k) $17+6 p=9$
(I) $\frac{x}{3}+1=\frac{7}{15}$

Answer:
(a) $x-2=7$

## [Transposing ( -2 ) to RHS we get]

$$
\begin{aligned}
& x=7+2 \\
& x=9
\end{aligned}
$$

(b) $y+3=10$
$y=10-3$
$y=7$
(c) $6=z+2$
$z=6-2$
$z=4$
(d) $\frac{3}{7}+x=\frac{17}{7}$

$$
\begin{aligned}
& x=\frac{17}{7}-\frac{3}{7} \\
& x=\frac{17-3}{7} \\
& x=\frac{14}{7} \\
& x=2
\end{aligned}
$$

Mathematics

Chapter 2: Linear Equations in One Variable, Class 3
(e) $6 x=12$
$x=\frac{12}{6}$
$x=2$
(f) $\frac{t}{5}=10$
$\mathrm{t}=10 \times 5$
$\mathrm{t}=50$
(g) $\frac{2 x}{3}=18$
$\mathrm{X}=\frac{18 \times 3}{2}$
$x=9 \times 3$
$x=27$
(h) $1.6=\frac{y}{1.5}$

$$
y=1.5 \times 1.6
$$

$$
y=2.4
$$

(i) $7 x-9=16$
$7 x=16+9$
$7 x=25$
$\mathrm{x}=\frac{25}{7}$
$x=3.57$
(j) $14 y-8=13$
$14 y=13+8$
$14 y=21$
$y=\frac{21}{14}$

Mathematics

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$$
y=1.5
$$

(k) $17+6 p=9$

$$
\begin{gathered}
6 p=9-17 \\
6 p=-8 \\
p=\frac{-8}{6} \\
p=\frac{-4}{3} \\
\text { (I) } \frac{x}{3}+1=\frac{7}{15} \\
\frac{x}{3}=\frac{7}{15}-1 \\
\frac{x}{3}=\frac{7}{15}-\frac{15}{15} \\
\frac{x}{3}=\frac{-8}{15} \\
x=\frac{-8 \times 3}{15} \\
x=\frac{-24}{15} \\
x=\frac{-8}{5}
\end{gathered}
$$



