### 7.2 Two-Step Equations

Math 9

Part I: Equations with Integers
$2 n+4=18$
$-4 \quad-4$
$\ln _{\div 2}=14$
$n=7$
$3 t-1=20$
$+1+1$
$3 t=21$
$\div 3$
$t=7$

## Review of Two-Step Equations

Solve each equation. Show how you are isolating the variable.

$$
\begin{array}{rlrl}
3 x-8 & =-2 & -4+5 y & =4 \\
+8 & +8 & +4 & +4 \\
3 x & =6 & 5 y & =8 \\
\div 3 & \div 3 & \div 5 & \div 5 \\
x & =2 & y & =\frac{8}{5}
\end{array}
$$

$$
7 k+3=-2
$$

$$
\begin{array}{ll}
-3 & -3
\end{array}
$$

$$
\begin{aligned}
& 7 k=-5 \\
& \div 7
\end{aligned} \div 7
$$

$$
k=-\frac{5}{7}
$$

$$
36=8-2 a
$$

$$
-8 \quad-8
$$

$$
\underset{\div-2}{28}=-2 a
$$

$-14=a$

Part II: Equations with Decimals Solve each equation. Show how you are isolating the variable.

$$
\begin{aligned}
& \begin{array}{rrrrrr}
2+12.5 m=0.55 & -0.77 & =-0.1 a-0.45 & 67=5.51+4.3 d & 6.2-\frac{x}{1.2}=0.38 \\
-2 & -2 & +0.45 & +0.45 & -5.51-5.51 & -6.2 \\
-6.2
\end{array} \\
& \begin{array}{llll}
12.5 m=-1.45 & -0.32=-0.1 a & 61.49=4.3 d \\
\div 12.5 & \div 12.5 & \div-0.1 & \div-0.1
\end{array} \quad \div 4.3 \quad \div 4.3 \quad-1.2 \cdot \frac{x}{-1.2}=-5.82 \cdot-1.2 \\
& m=-0.116 \\
& 3.2=a \\
& 14.3=d \\
& x=6.984
\end{aligned}
$$

Part III: Equations with Fractions Solve each equation. Show how you are isolating the variable.

* clear fractions by multiplying each term by the LCD.


