Please have your homework on your desk. Calculator? Yes! DATE:

TSW solve literal equations.
QRQ4:
Solve
$12(x+7)=-3(x-7) \quad 2 \quad 3 x+2=\frac{1}{3}(6 x+9)$

## Now You Try These!

Solve each equation for the identified variable.
$1 \quad \frac{w x y=}{\omega X} \quad \frac{z}{\omega X} \quad$ Solve for $y$

$$
y=\frac{z}{w x}
$$

Solve each equation for the identified variable.
Ex1 $\frac{a=h c d}{b d} \quad$ Solve for $c$

$$
\frac{a}{b d}=c
$$

Ex Solve for $r$

$$
\begin{aligned}
& \frac{m}{n^{2} p}=\frac{n^{2} d n}{n^{2} d} \\
& \frac{m}{n^{2} p}=r
\end{aligned}
$$

$$
\begin{aligned}
2 \quad \frac{V}{\pi r^{2}} & =\frac{j \pi r^{2} h}{\pi r^{2}} \quad \text { Solve for } h \\
\frac{V}{\pi r^{2}} & =h
\end{aligned}
$$

3 Solve for $x \quad b=a x+8$
$-8 \quad-8$
$\frac{b-8}{a}=\frac{q x}{a}$

$$
\frac{b-8}{a}=x
$$

$$
\begin{aligned}
\text { Ex4 } & \begin{array}{r}
-b^{y}=m x+b \\
\frac{y-b}{x}
\end{array}=\frac{m x}{x} \\
\frac{y-b}{x} & =m
\end{aligned}
$$

4 Solve for $\underline{a} \quad \mathrm{ax}+\mathrm{b}=\mathrm{c}$

$$
\begin{aligned}
& \frac{a x}{x}=\frac{c-b}{x} \\
& a=\frac{c-b}{x}
\end{aligned}
$$



5 | Solve for $y \quad \begin{aligned} & 10 x+5 y=15 \\ & \frac{-10 x}{5}-10 x \\ & y=-2 x+3 \\ & 5\end{aligned}$ |
| ---: | :--- |

$$
\text { Ex6 } \begin{gathered}
\begin{array}{l}
-3 x+6 y=18 \\
+3 x
\end{array} \\
\\
\\
\frac{6 y}{6}=\frac{3 x+18}{6} \\
y=\frac{1}{2} x+3
\end{gathered}>\frac{3}{6} x+\frac{18}{6}
$$

$6 \quad$ Solve for $y \quad-8 x+4 y=12$

$$
\begin{aligned}
&+8 x \quad+8 x \\
& \frac{4 y}{4}=\frac{8 x+12}{4} \\
& v=2 x+3
\end{aligned}
$$

$$
y=2 x+3
$$

Ex7


$$
\begin{aligned}
x+x+x+x & =88 \\
\frac{4 x}{4} & =\frac{88}{4} \\
x & =22
\end{aligned}
$$


Ex9


$$
\begin{aligned}
\mathrm{V} & =\mathrm{lwh} \\
3024 & =l(12)(14) \\
\frac{3024}{168} & =\frac{l(168)}{168} \\
18 & =l
\end{aligned}
$$



$$
\begin{aligned}
\omega & =\text { width }=6 \\
w+3 & =\text { length }=6+3=9
\end{aligned}
$$

10 Mark's grandmother is crocheting a blanket for her new grandchild. The blanket will be 12 inches longer than it is wide. If the perimeter of the blanket is 36 feet, what will be the dimensions of the blanket?
$\omega+12$

$4 \omega+24=36$

| $-24-24$ |  |
| ---: | :--- |
| $\frac{4 \omega}{4}$ | $=\frac{12}{4}$ |

$\omega=3$
$\omega=$ width $=3$
$\omega+12=$ length $=3+12=15$

