

Nov. 30, 2006

3.2.

Solving Equations w/
Multiplication & Division

Rotten Kid. Th^e

What you do to one kid (side of the equ.)

You must do to the other (side of the equ.)

Solve:

$$\frac{4x}{4} = \frac{12}{4}$$

$$\underline{\underline{x = 3}}$$

What are we trying to do?

Ans. get 'x'
By itself

"What is happening to 'x'?"
"What is the opposite?"

Solve: $\frac{-5x}{-5} = \frac{100}{-5}$

$$\underline{\underline{x = -20}}$$

Solve

$$\frac{6}{1} \cdot \frac{x}{6} = 30 \cdot 6$$

$$\underline{\underline{x = 180}}$$

$$\frac{3}{2} \cdot \frac{10}{1} = \frac{3}{2} \left(\frac{2}{3} m \right)$$

$$\frac{30}{2} = m$$

$$\underline{\underline{15 = m}}$$

Review

$$\frac{3}{\cancel{2}} \cdot \frac{\cancel{10}5}{1} = \underline{\underline{15}}$$

Side Bar

5c the opp.
is to $\div$ by 5

$\frac{2}{3} * m$
the opp. of
 $*$ by $\frac{2}{3}$ is
to $\div \frac{2}{3}$ $\leftarrow$

$\div$ by a fraction
is the same as
 $*$ by the recip.

Solve :

$$\frac{5}{-3} \cdot \left(\frac{3}{5} x \right) = \frac{24}{1} \cdot \frac{5}{-3}$$

$$\begin{array}{r} 24 \\ \times 5 \\ \hline 120 \end{array}$$

$$x = \frac{120}{-3}$$

$$x = -40$$

$$\frac{24}{1} \cdot \frac{5}{-3} = \underline{\underline{-40}}$$

O.T.L.



Pg: 139: 2 Checkpoints

all^{1-4 + 5-8}

