Math 9 Ch 6
Level 4: Algebra with Fractions (Part 1: Cross-Multiply)

Name: $\qquad$
Page 1 of 1

Learning Outcome 6C: I can solve algebra equations with fractions.


Cross
Multiplication


When an equation is of the form $\frac{a}{b}=\frac{c}{d}$, we can make it into an easier equation
by cross-multiplying.


Example 3:

\%" Solve

$5 x-10=10$


Example 2:


$$
\begin{aligned}
12 m+12(7) & =28 m+28(-9) \\
12 m+84 & =28 m-252 \\
-12 m & -12 m \\
\hline 84 & =16 m-252
\end{aligned}
$$

| +252 | +252 |
| ---: | :--- |
| $\frac{336}{16}$ | $=\frac{16 m}{16}$ |
| $m$ | $=21$ |

Math 9
Section 6.1 and 6.2 - Solving Equations Involving Fractions

Date: $\qquad$

## EXERCISES:

Solve each of the following by cross-multiplication.
4.

$5 k=(-2)(2)$

8.


$$
2(3)-2(k)=4 k+4(3)
$$

$-4=3 b+5$
-5
-5

$$
6-2 k=4 k+12
$$

$-2=\frac{33}{3} \quad b=-3$
Assignment: "What do you call it when you cut up your credit cards?" Worksheet


