

SOLVING 1-STEP MULTIPLICATION & DIVISION EQUATIONS.

Ex: $\frac{-3x}{-3} = \frac{-15}{-3}$

USE FRACTION BAR TO DIVIDE

$x = 5$

DO	UNDO
$\times (-3)$	$\div (-3)$

CHECK

$$-3x = -15$$

$$-3(5) = -15$$

$$-15 = -15 \text{ :)$$

Ex: $\frac{11m}{11} = \frac{-55}{11}$

$m = -5$

DO	UNDO
$\times 11$	$\div 11$

CHECK

$$11m = -55$$

$$11(-5) = -55$$

$$-55 = -55 \text{ :)$$

MULTIPLY ON OUTSIDES

Ex: $(-4)\left(\frac{r}{-4}\right) = (-3)(-4)$

$r = 12$

DO	UNDO
$\div (-4)$	$\times (-4)$

CHECK

$$\frac{r}{-4} = -3$$

$$\frac{(12)}{-4} = -3$$

$$-3 = -3 \text{ :)$$

Ex: $(3)\left(\frac{p}{3}\right) = (-8)(3)$

$p = -24$

DO	UNDO
$\div 3$	$\times 3$

CHECK

$$\frac{p}{3} = -8$$

$$\frac{(-24)}{3} = -8$$

$$-8 = -8 \text{ :)$$

SOLVING 1-STEP EQUATIONS USING SQUARE & CUBE ROOTS

Ex:) $\sqrt{x^2} = \pm \sqrt{49}$
 $x = \pm 7$

DO	UNDO
SQUARE	\pm SQ. RT.

CHECK
 $x^2 = 49$
 $(7)^2 = 49$
 $49 = 49 \text{ :)}$
 $(-7)^2 = 49$
 $49 = 49 \text{ :)}$

Ex:) $\sqrt{b^2} = \pm \sqrt{4}$
 $b = \pm 2$

DO	UNDO
SQUARE	\pm SQ. RT.

CHECK
 $b^2 = 4$
 $(2)^2 = 4$
 $4 = 4 \text{ :)}$
 $(-2)^2 = 4$
 $4 = 4 \text{ :)}$

Ex:) $\sqrt[3]{z^3} = \sqrt[3]{216}$
 $z = 6$

DO	UNDO
CUBE	CB. RT.

CHECK
 $z^3 = 216$
 $(6)^3 = 216$
 $216 = 216 \text{ :)}$

Ex:) $\sqrt[3]{m^3} = \sqrt[3]{-27}$
 $m = -3$

DO	UNDO
CUBE	CB. RT.

CHECK
 $m^3 = -27$
 $(-3)^3 = -27$
 $-27 = -27 \text{ :)}$