

WARM UP

Solve using the **Zero Product Property**

(Psst... this is way back in your **factoring** notes!)

* Find GCF and factor!

Sample:

$$(x+1)(x+2)=0$$

Set factors
equal to 0!

$$\frac{4x^2}{2x} - \frac{2x}{2x} = 0$$

$$2x(2x-1)=0$$

#1 #2

~~$$2x=0$$~~

$$x=0$$

~~$$2x-1=0$$~~

$$2x=1$$

$$x=.5$$

Solve using the **quadratic formula**.

$$2x^2 - 17x + 8 = 0$$

$$a=2 \quad b=-17 \quad c=8$$

$$x = \frac{17 \pm \sqrt{(-17)^2 - 4(2)(8)}}{2(2)}$$

$$x = \frac{17 \pm \sqrt{225}}{4} = \frac{17 \pm 15}{4}$$

$$x = \frac{17+15}{4} = \frac{32}{4} = \boxed{8} \quad x = \frac{17-15}{4} = \frac{2}{4} = \boxed{.5}$$