Name : _____

Zero Product Property

Sheet 1

Solve each quadratic equation using zero product property.

1) $(2x - 1)(3x + 4) = 0$

2) $(m - 5)(m - 2) = 0$

3) $(z - 7)(z + 2) = 0$

4) $(9p - 27)(5p + 3) = 0$

5) $(5r - 9)(4r - 6) = 0$

6) $(2n + 8)(7n + 35) = 0$

7) $(8q - 3)(q - 2) = 0$

8) $(4t + 5)(2t - 5) = 0$

9) $(10v + 5)(11v - 44) = 0$

10) $(7y + 4)(6y + 1) = 0$

Answer key

Zero Product Property

Sheet 1

Solve each quadratic equation using zero product property.

1) $(2x - 1)(3x + 4) = 0$

$x = -\frac{4}{3}$; $x = \frac{1}{2}$

2) $(m - 5)(m - 2) = 0$

$m = 2$; $m = 5$

3) $(z - 7)(z + 2) = 0$

$z = -2$; $z = 7$

4) $(9p - 27)(5p + 3) = 0$

$p = -\frac{3}{5}$; $p = 3$

5) $(5r - 9)(4r - 6) = 0$

$r = \frac{3}{2}$; $r = \frac{9}{5}$

6) $(2n + 8)(7n + 35) = 0$

$n = -5$; $n = -4$

7) $(8q - 3)(q - 2) = 0$

$q = \frac{3}{8}$; $q = 2$

8) $(4t + 5)(2t - 5) = 0$

$t = -\frac{5}{4}$; $t = \frac{5}{2}$

9) $(10v + 5)(11v - 44) = 0$

$v = -\frac{1}{2}$; $v = 4$

10) $(7y + 4)(6y + 1) = 0$

$y = -\frac{4}{7}$; $y = -\frac{1}{6}$

Zero Product Property

Solve each quadratic equation using zero product property.

1) $(10w + 20)(9w - 45) = 0$

2) $(7k + 4)(4k + 9) = 0$

3) $(3h - 12)(5h + 8) = 0$

4) $(15m - 30)(6m - 48) = 0$

5) $(10y + 4)(14y + 7) = 0$

6) $(8q - 6)(3q - 5) = 0$

7) $(u - 2)(6u - 18) = 0$

8) $(2g + 10)(7g - 9) = 0$

9) $(7s + 8)(8s - 3) = 0$

10) $(5d - 7)(2d + 4) = 0$

Name : _____

Answer key

Zero Product Property

Sheet 2

Solve each quadratic equation using zero product property.

1) $(10w + 20)(9w - 45) = 0$

$w = -2 ; w = 5$

2) $(7k + 4)(4k + 9) = 0$

$k = -\frac{9}{4} ; k = -\frac{4}{7}$

3) $(3h - 12)(5h + 8) = 0$

$h = -\frac{8}{5} ; h = 4$

4) $(15m - 30)(6m - 48) = 0$

$m = 2 ; m = 8$

5) $(10y + 4)(14y + 7) = 0$

$y = -\frac{1}{2} ; y = -\frac{2}{5}$

6) $(8q - 6)(3q - 5) = 0$

$q = \frac{3}{4} ; q = \frac{5}{3}$

7) $(u - 2)(6u - 18) = 0$

$u = 2 ; u = 3$

8) $(2g + 10)(7g - 9) = 0$

$g = -5 ; g = \frac{9}{7}$

9) $(7s + 8)(8s - 3) = 0$

$s = -\frac{8}{7} ; s = \frac{3}{8}$

10) $(5d - 7)(2d + 4) = 0$

$d = -2 ; d = \frac{7}{5}$