

EXIT TICKET:

Name _____ Per _____

Factor: AND SOLVE:

a. $4x^2 - 49 = 0$

b. $4x^2 - 17x + 15 = 0$

Solutions:

$$x = -\frac{7}{2} \quad x = \frac{7}{2}$$

factors: $(2x-7)(2x+7)=0$

factors: $(4x-5)(x-3)$

Solutions: $x = 1.25 \quad x = 3$

#12 - 16: Solve the following problems.

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12) $x^2 = 72$

$$x = \pm \sqrt{72}$$

$$x = \pm \sqrt{36 \cdot 2}$$

$$x = \pm \sqrt{36} \sqrt{2}$$

$$x = \pm 6\sqrt{2}$$

$$x = 6\sqrt{2} \quad x = -6\sqrt{2}$$

14) $(2x-3)^2 = 16$

$$2x-3 = \pm 4$$

$$2x-3 = 4 \quad 2x-3 = -4$$

$$2x = 7$$

$$x = \frac{7}{2}$$

16) $(x+5)^2 - 4 = 32$

$$\sqrt{(x+5)^2} = \sqrt{36}$$

$$x+5 = \pm 6$$

$$x+5 = 6$$

$$x+5 = -6$$

$$x = -1 \quad x = -11$$

13) $x^2 - 18 = 0$

$$x^2 = 18$$

$$x^2 = 9 \cdot 2$$

$$x^2 = 18$$

$$x = \pm \sqrt{18}$$

$$x = \sqrt{18} \quad x = -\sqrt{18}$$

15) $4x^2 - 78 = -29$

$$4x^2 = 49$$

$$x^2 = \frac{49}{4}$$

$$x = \pm \sqrt{\frac{49}{4}}$$

$$x = \pm \frac{7}{2}$$

understanding $\pm$
 $x^2 = 36$ solve

$$x = 6$$

$$x = -6$$

check:

$$(6)^2 = 36 \checkmark$$

check:

$$(-6)^2 = 36 \checkmark$$

HOMEWORK:

Jan. 23	5.2	I can factor quadratic expressions	5.2A 13, 18, 20, 22 (P-9)	13, 18, 20, 22 24, 27, 31	😊	😊	😞
Jan. 26		I can solve quadratic equations by factoring	5.2B 10-12 (P-12)	10-12 (P-12)	😊	😊	😞
Jan. 27			5.2B 10-12 (P-12)	13, 15, 17			
Jan. 28			5.2C 1, 6 (P-13)	white worksheet	😊	😊	😞
Jan. 30		I can simplify radical expressions	5.2D #1, (P-15)		😊	😊	😞
Feb. 3		I can solve quadratic equations using square roots to find <i>rational</i> solutions	5.2E 1 (P-19) #1, 2, 3	NEW TODAY	😊	😊	😞
		I can solve quadratic equations using square roots to find <i>real</i> solutions	5.2F #7 - 15 odd (P-21)		😊	😊	😞
Feb. 2		I can simplify expressions involving	5.2G 1, 6, 8, 10 (P-25)	blue worksheet	😊	😊	😊