

15

Jan. 22- bell ringer
Factor completely.

$$\frac{1}{4}n^2 - \frac{9}{16}r^2$$

$$\frac{4}{16}n^2 - \frac{9}{16}r^2$$

$$\frac{1}{16}(4n^2 - 9r^2) = \frac{1}{16}(2n+3r)(2n-3r)$$

Assignment

Review WS

Friday

Test ~~Thursday~~

4) 132 ft per sec

⑭ 15 ft

5) 156 ft

16) 18 yd by 13 yd

6) 3.5 sec or 4 sec

18) 16 cm by 12 cm

10) 4 sec

19) 24 in by 20 in

11) 20 sec or 100 sec

⑳ 18 20 / 15 25

12) 8 Sec

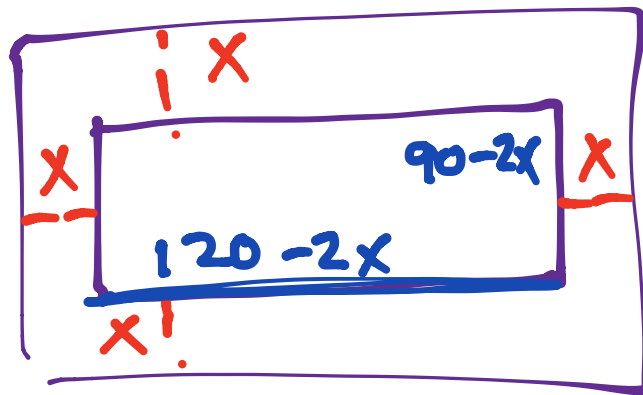
13) -10PTS

21) 18, 20 / -18, -20

23) 19, 21 / -19, -21

25) 16, 17

14)



$$120 \times 90$$

$$10800$$

$$\frac{10800}{2}$$

$$5400$$

$$(120 - 2x)(90 - 2x) = 5400$$

$$10800 - 240x - 180x + 4x^2 - 5400 = 0$$

$$4x^2 - 420x + 5400 = 0$$

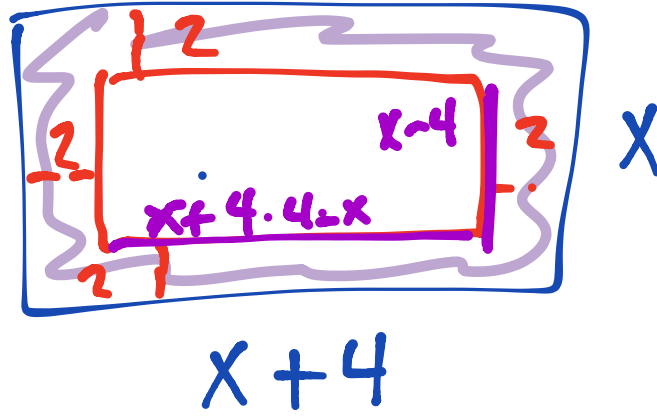
$$4(x^2 - 105x + 1350) = 0$$

$$4(x - 90)(x - 15) = 0$$

$$\cancel{x = 90 \text{ ft}}$$

$$\underline{\underline{x = 15 \text{ ft}}}$$

19)



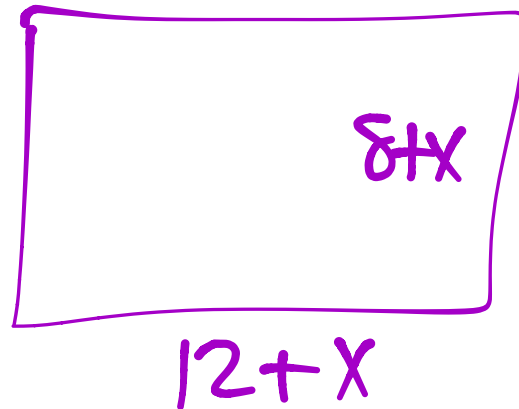
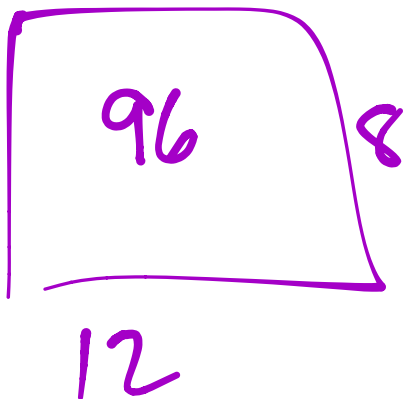
$$x(x+4) - x(x-4) = 192$$

$$x^2 + 4x - x^2 + 4x = 192$$

$$8x = 192$$

$$x = 24$$

$$x - 4 = 20$$



$$(12+x)(8+x) = 192$$

