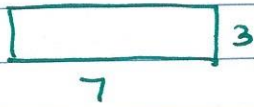


3.1 Part 3: The Distributive Property p. 83

* used to rewrite an equivalent expression

Find the perimeter:



$$2(7+3) = 2(7) + 2(3)$$
$$20 = 20$$

$$2(x+3) = 2x + 6$$

d.p. over addition

$$2(x-3) = 2x - 6$$

d.p. over subtraction

$$6(2+b) = 12 + 6b \rightarrow 6b + 12$$

$$6(2-b) = 12 - 6b \rightarrow -6b + 12$$

* terms w/
variables
first;
constants last.

$$4(8+j) = 32 + 4j \rightarrow 4j + 32$$

$$3(2x+7) = 6x + 21$$

$$3(2x+7+p) = 6x + 21 + 3p \rightarrow 3p + 6x + 21$$

$$6(-4+3y) = -24 + 18y \rightarrow 18y - 24$$

NO double
signs

$$7(-2+5p) = 35p - 14$$

$$-(p+4) = -p - 4$$

$$-(-n-3) = n + 3$$

$$-4(8-8m) = -32 + 32m \rightarrow 32m - 32$$

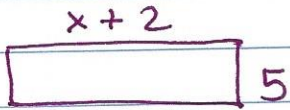
$$-3(5-2b+6a) = -15 + 6b - 18a$$

$$-18a + 6b - 15$$

the
opposite
of

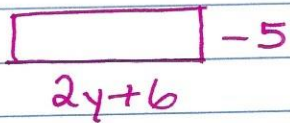
Find the area of each rectangle: lw

1)



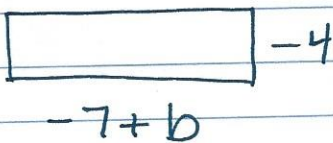
$$5(x+2) = 5x+10$$

2)



$$-5(2y+6) = -10y-30$$

3)



$$-4(-7+b) = 28-4b \rightarrow \boxed{-4b+28}$$