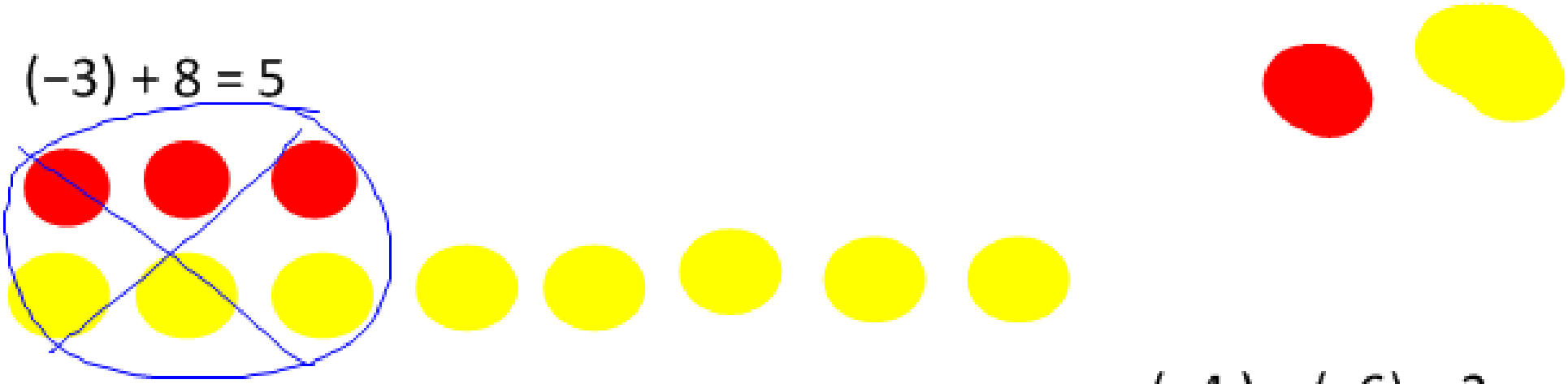
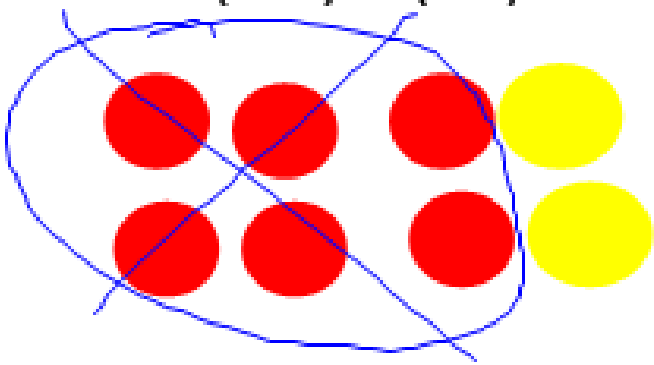
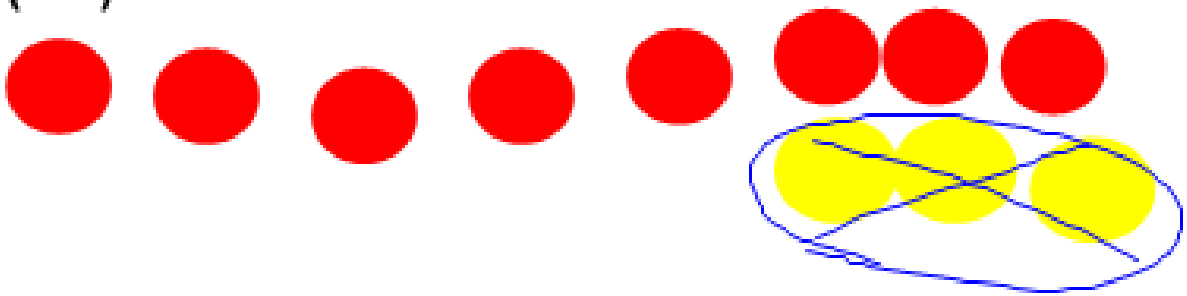
$(-3) + 8 = 5$



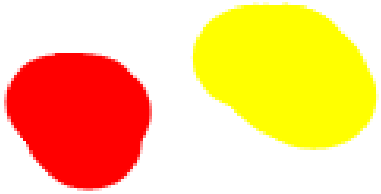
$(-4) - (-6) = 2$



$(-5) - 3 = -8$



3 times 5



Start with 0 and add three groups of
5 yellow counters

$5 + 5 + 5 = 15$ ✓

$3 \cdot 5 = 15$ ✓

NOTE: PRODUCT is the answer when you multiply.

The product of 3 and 5 is 15

Multiplication as you know it is "repeated addition" starting at 0

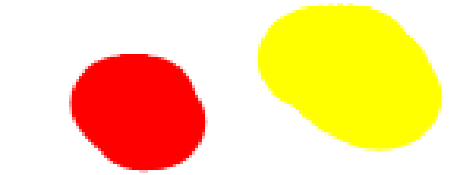
The first number tells us "how many times" to do it and the second number tells us "how many in each group"

So 8 times 4 is adding eight groups of positive 4

3 times negative 5

words:

add 3 groups of negative 5



= red

= yellow

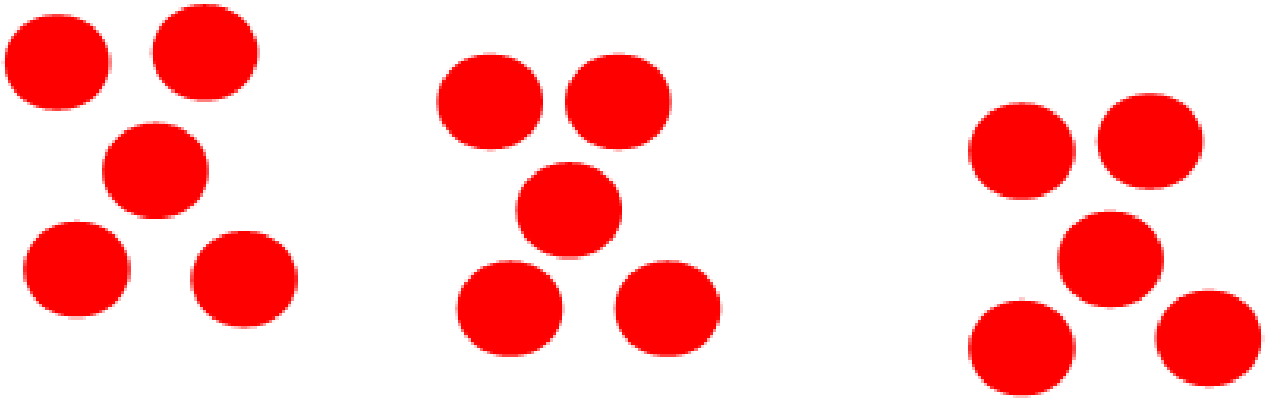
repeated addition equation:

$(-5)+(-5)+(-5)$

multiplication equation:

3×-5 or $3 \cdot -5$ or $3(-5)$

counters:



answer: -15

7(-2)

words:

add seven groups of negative two

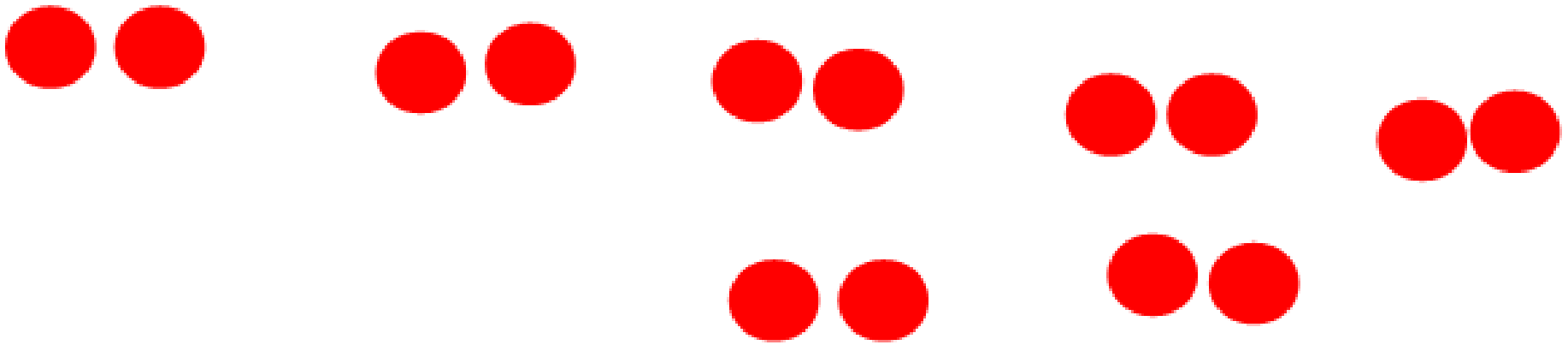
repeated addition equation:

$(-2)+(-2)+(-2)+(-2)+(-2)+(-2)+(-2)$

multiplication equation:

$7 \cdot -2$

counters:



answer: -14

positive times positive = positive

positive times negative = negative

$8 \cdot 2 = 16$

$2 \cdot 8 = 16$

$3 \cdot -4$ and $-4 \cdot 3$

exact same thing

easier with counters

$-2 \cdot 5$ change it to $5 \cdot -2$

$-4 \cdot 8$ change it to $8 \cdot -4$

Practice

pg 68 # 5, 6, 10a-e, 11a-e, 12, 14