

Friday, August 24, 2012

TISK Problems

1. Draw a scatter plot for the data set shown then determine if there is a correlation.
2. State the constant difference:
-5, -3, -1, 13, 51, 125, 247
3. Tell which difference was constant in problem #2.

Hours of Studying	Hours of Exercise
7.5	6
10	9
5	3
9	9
3.75	10
5.2	5

We will have 3 Mental Math Questions today.

HOMEWORK: p. 78 #30-38 even, 40-43 all, 57-63all, & 65
OPTIONAL: Review Chapter 2 Lessons 1-4 in Algebra
textbook using p. 106-107 #1-39

Homework Check

36) -58

38) 10

40) -32.45

42) -0.662

44) $-\frac{3}{5}$

46) $-\frac{5}{6}$

48) 8

50) 5

52) 7

54) 7

56) 5

58) 24

65) a. 2, 5, 8

b. 0, -15, -30

c. 10, 15, 19

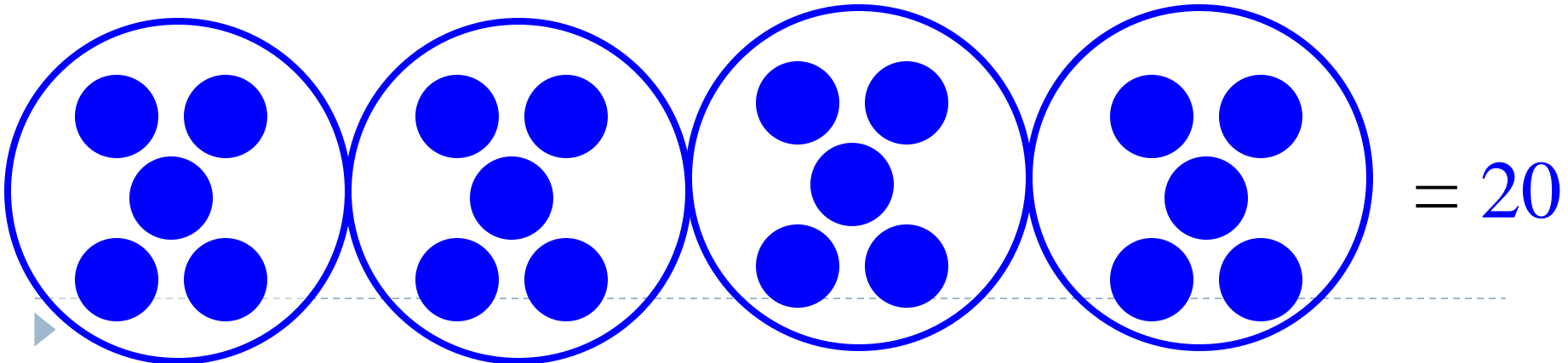
66) There were 13 cases of juice used during lunch.

Multiplying & Dividing Integers

$$4 \cdot 5$$

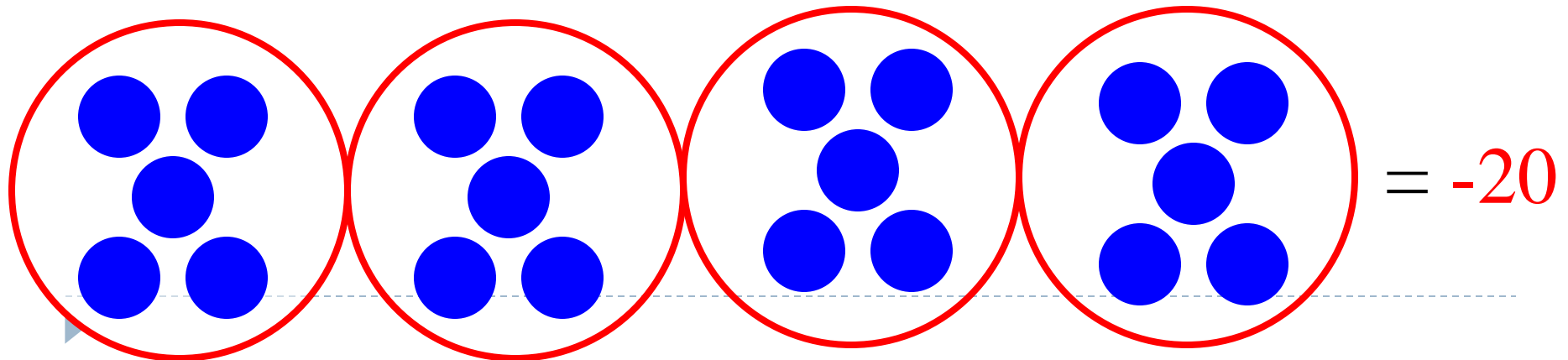
of 5 each

4 groups



$$-4 \cdot 5$$

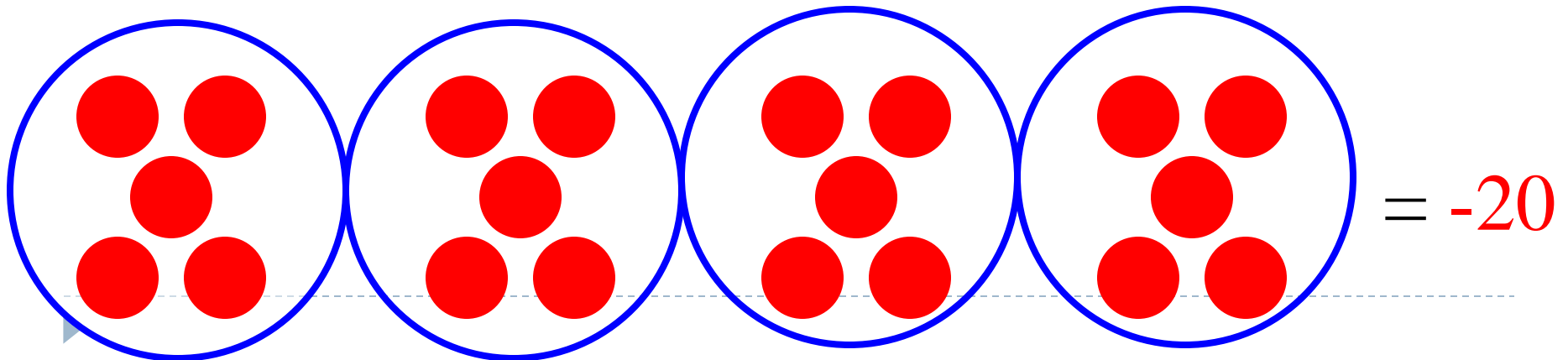
of 5 each
the opposite
of 4 groups



$$4 \cdot -5$$

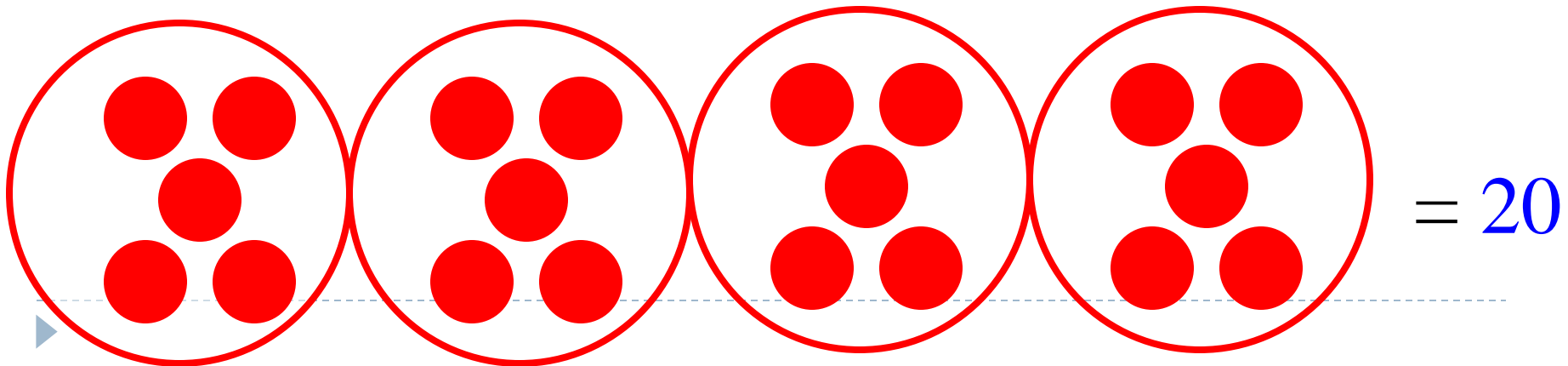
of -5 each

4 groups



$$-4 \cdot -5$$

of -5 each
the opposite
of 4 groups



So what could the rule be?

$$\star 4 \cdot 5 = 20$$

$$\star 4 \cdot (-5) = -20$$

$$\star -4 \cdot 5 = -20$$

$$\star -4 \cdot (-5) = 20$$

Multiply the numbers.

If there are an even number of (-) signs, the answer is (+).

If there are an odd number of (-) signs, the answer is (-).

Check Points.

1) $-8(5) = \underline{\hspace{2cm}}$

2) $-2(-3)(-7) = \underline{\hspace{2cm}}$

3) $-16(-3) = \underline{\hspace{2cm}}$

4) $-9(-5)(-2)(-10) = \underline{\hspace{2cm}}$

5) $-12(-19) = \underline{\hspace{2cm}}$

6) $-72(2) = \underline{\hspace{2cm}}$

7) $5(7)(-3) = \underline{\hspace{2cm}}$

8) $2(3)(4)(5)(-1) = \underline{\hspace{2cm}}$

9) $3(-4)(3)(-4) = \underline{\hspace{2cm}}$

10) $(-1)(-1)(-1)(-1)(-1)(-1)(-1)(-1) = \underline{\hspace{2cm}}$



What about Division?

- ▶ Same rules!
- ▶ Divide.
- ▶ Even number of (-) signs = (+) answer
- ▶ Odd number of (-) signs = (-) answer



Evaluate.

▶ $-\frac{2}{3}\left(\frac{5}{4}\right)$

▶ $-\frac{5}{6}$

▶ $-\frac{18}{-6}$

▶ 3

▶ $\frac{3}{7} \div \left(-\frac{6}{14}\right)$

▶ -1

▶ $\frac{-40+4}{-9}$

▶ 4

▶ $-3.8(6)$

▶ -22.8

▶ $\frac{96}{-4}$

▶ -24

▶ $-\frac{4}{25} \div \left(-\frac{22}{5}\right)$

▶ $\frac{2}{55}$

▶ $\frac{-47+68}{-7}$

▶ -3

