Math 2   Homework 8

1 Find the sum using the commutative property of addition.

$3 + 6 + 9 + 12 + 15 + 18 =$ _____

$4 + 7 + 10 + 13 + 16 =$ _____

2 There are 12 *liters* of milk in a 12 *L* bucket. How can you share this milk equally between two families using two empty buckets: 3 *L* and 8 *L*?

_____

_____

3. A pharmacy has an old balance scale, which has only two measuring weights: 30 grams and 5 grams. A pharmacist has to divide 300 grams of powder medicine into 3 small bags – 150 gram in the 1st bag, 100 grams in the 2nd bag and 50 grams in the 3rd bag. How can he do it if he can only weigh 3 times?

_____

_____

_____

4 Find the weights.

How much a bag weight?
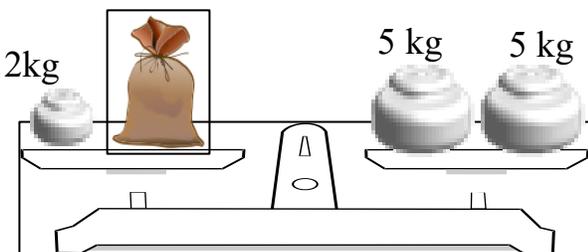
One of the bottles is full and another one is empty. Find the weight of the empty one.

2kg   5 kg   5 kg

_____

_____
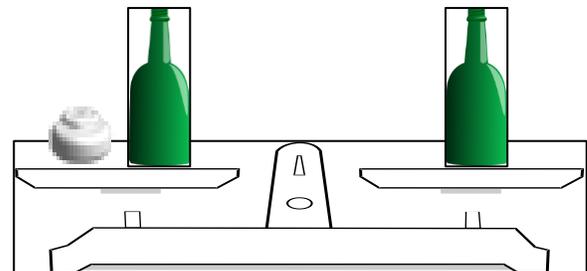
5

Alex has *a* books, Boris has *b* books, and Victor has *c* books. Explain the meanings of the following expressions:

a + *b* how many books Alex and Boris had together.

a + *c* _____

a − *c* _____

b + *c* _____

a + *b* + *c* _____

b − *c* _____

6

Compare using >, <, or =.

456 - *c* ☐ 365 - *c*   207 + *d* ☐ 720 + *d*   *a* + 25 ☐ *a* + 125

x - 111 ☐ *x* - 9   340 - 0 ☐ 340 + 0   *b* − 602 ☐ *b* − 62

7.

 Draw two closed curves, one inside the other. Draw an open curve that intersects each of the closed curves at two points. Label the intersection points with any letters you choose.

8.

Solve for x. Use diagrams. Check your answers.

$800 - x = 162$ $x + 487 = 503$ $x - 58 = 679$

9. Write down the following expressions:

The sum of *m* and *n* _____

The difference between *34* and *x* _____

The difference between *200* and *48* _____

The sum of *3* and *18* _____

10 Calculate:

$$3\,14 + 17$$ $$490 - 317$$ $$705 - 178$$ $$654 + 278$$ $$702 - 208$$ $$303 - 384$$

11 The distances between a tower, a tree, and a cave are shown in the drawing. What will you find out if you perform the following actions?

15m + 15m   distance from tower to tree and back
15m + 45m   _____
45m + 35m   _____
15m + 35m + 45m_____

15 m   *35 m*   *45 m*
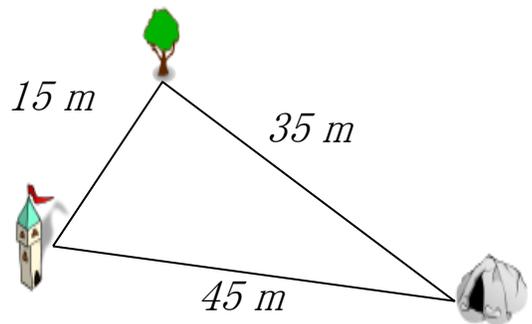
12 Compare:

24dm = ____ 240cm   66dm = ____ 606 cm   30dm = _____ 303cm

1500g ___ 15kg   21kg ___ 210g   700g ___ 70kg

500 mL ___ 5L   12L ____ 120mL   3L ____ 350mL