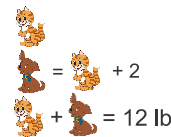Math 4e. Class work 1.

Word problems.

1. A dog weighs 2 pounds more than a cat. Together, a dog and a cat weigh 12 pounds. How many pounds does the dog weigh? How many pounds does the cat weigh?
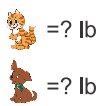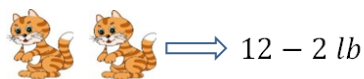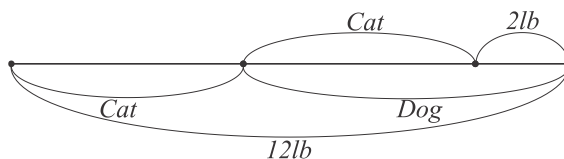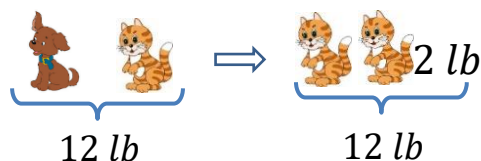

2. An adult elephant weighs 10833 pounds more than a baby elephant. Together they weigh 32037 pounds. How many pounds does a baby elephant weight?

    Draw a schematic picture of the problem if it can help you.

3. There are 4 times more trout in the lake than perch. In total there are 1585 perch and trout. How many trout and how many perches are in the lake?

    Draw the schematic picture of the problem if it can help you:

    trout   perch

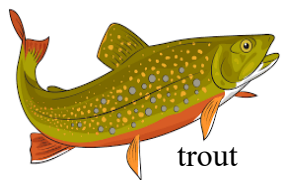4. In an elementary school there are 155 studens. $\frac{3}{5}$ of them like math, half of the rest like language art. How many students do like language art?

5. Evaluate:

    a. $(418 : 418 - 0 \cdot 75) \cdot (62 - 62) + (89 \cdot 1) : 89$;

    b. $(54 : 1 + 0 : 1) \cdot 0 + (25 - 24) \cdot (12 + 0 : 36)$;

6. Peter and Robert went camping. They walked 14 km and rested. After the rest, they walked 6 km less than before the rest, and stopped for the night. Now they have to go three times further than they have already gone. How long is the trip planned?

7. Find the unknown x

$x + 6 = 84;$ $\qquad\qquad$ $x \cdot 6 = 84$

$x - 7 = 63;$ $\qquad\qquad$ $x : 7 = 63$

$54 - x = 27;$ $\qquad\qquad$ $54 : x = 27$

8. In the examples below, some digits were substituted with asterisks. Can you explain if these problems were solved correctly.

$* + 2* = *$ $\qquad\qquad$ $*5 + *7 = *8$ $\qquad\qquad$ $3** - ** = **$
$* + * = 6*$ $\qquad\qquad$ $**5 + *7 = *2$ $\qquad\qquad$ $**9 - *4 = **3$

9. Can you compare?

$5798 - 315 \ \dots \ 5798 - 415$ $\qquad$ $342 \cdot 3 \ \dots \ 342 : 3$ $\qquad$ $452 \cdot 8 + 452 \cdot 6 \ \dots \ 15 \cdot 452$

$2314 + 205 \ \dots \ 502 + 2314$ $\qquad$ $722 : 38 \ \dots \ 722 : 19$ $\qquad$ $231 \cdot 24 - 231 \cdot 10 \ \dots \ 231 \cdot 7$

$48 - 15 \ \dots \ 200 - 15$ $\qquad$ $405 : 45 \ \dots \ 225 : 45$ $\qquad$ $6 \cdot 564 + 3 \cdot 564 \ \dots \ 564 \cdot 9$

10. Find missing digits:

```
    □95              □20                2□
 +  3□4           -  4□7             × □2
 ─────            ─────              ────
   84□              36□               □8
                                  +7□
                                  ────
                                   7□8
```

11. Solve the following riddles (each letter represents a digit)

```
     S O              U S             C O C A
  +  S O           +  A S          +  C O L A
  ──────           ──────          ─────────
   T O O            A L L           O A S I S
```

12. Evaluate the sequence of operation:

$$28 \xrightarrow{+29} \bigcirc \xrightarrow{:19} \bigcirc \xrightarrow{\cdot 70} \bigcirc \xrightarrow{-180} \boxed{?}$$

$$\boxed{?} \xrightarrow{-17} \bigcirc \xrightarrow{:11} \bigcirc \xrightarrow{\cdot 50} \bigcirc \xrightarrow{:25} 6$$