Math 4d. Homework 15.

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1. Find the value of the following expression, use the properties of addition:

      a. $(3.75 + 0.237) + 0.25$;

      b. $2.47 + 3.57 + 4.43$;

      c. $0.571 + (2.87 + 1.429)$;

      d. $6.335 + 2.896 + 1.104$;

      e. $(48.375 + 23.496) + 7.501$;

2. Solve the following equations:

   a. $6.7 - x = 3$;

   b. $x + 6.9 = 7.2$;

   c. $5.3 - x = 2.4$;

   d. $x - 2.8 = 1.7$;
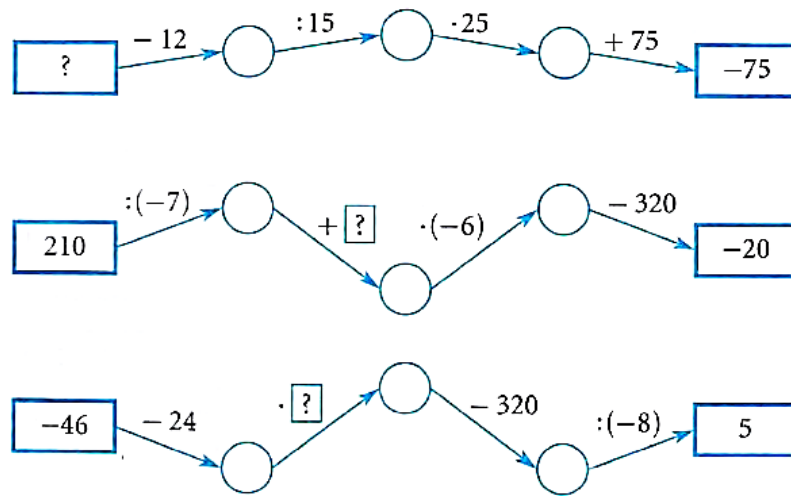
   e. $6.7 - x = 3$;

3. Comput:

   a. $42.18 \cdot 10$;   *f.* $0.04 : 10$;

   b. $0.0762 \cdot 100$;   *g.* $0.24 : 100$;

   c. $8.3 \cdot 100$;   *h.* $12.18 : 1000$;

   d. $0.0056 \cdot 1000$;   *i.* $0.0001 \cdot 10000$;

   e. $72.13 : 10$;

4. The fourth grade is going on a school trip. Every student had to bring in $64 for the trip to cover all costs. Unfortunately, 3 students could not participate on the trip. Therefore, every student who went on the trip had to bring in $4 more so those who did not go could get their money back. How many students went on the trip?

5. Nine 1-digit numbers (1, 2, 3, 4, 5, 6, 7, 8, 9) should be placed into the boxes so that all equalities hold.

$$\square - \square = \square\square : \square = \boxed{3} + \square = \boxed{1} \cdot \square$$

6. What number should be placed instead of "?" ?

$-12 \quad :15 \quad \cdot 25 \quad +75$

Row 1: $?$ → -12 → $:15$ → $\cdot 25$ → $+75$ → -75

Row 2: 210 → $:(-7)$ → $+\boxed{?}$ → $\cdot(-6)$ → -320 → -20

Row 3: -46 → -24 → $\cdot\boxed{?}$ → -320 → $:(-8)$ → 5

7. In the number 5 236 845 cross out three digits so that the resulting number will be
   a. Biggest possible number
   b. Smallest possible number

8. Three points are marked on a line (point M, point N and point O) so that the length of a segment $|MN| = 5\ cm$, the length of a segment $|NO| = 3\ cm$. What is the length of a segment $|MO|$? Draw the picture, use ruler!

9. On the diagrams of sets, A, B, and C, put 2 elements so that

a. each set contains 2 elements
b. set A contains 2 elements, set B contains also 2 elements, and set C contains 1 element.
c. set A contains 2 elements, sets B and C contain 1 element each
d. set A contains 2 elements, set B contains 1 element, and set C is an empty set
e. set A contains 2 elements, set B contains 2 elements, and set C is an empty set
f. each set contains 1 element

a)

b)

c)

d)

e)

f)