Math 4d, Homework 17.

1. Evaluate:

   $a.$ $12.53 \cdot 10$;　　$b.$ $4.7 \cdot 100$;　　　$c.$ $34.18 : 10$;　　$d.$ $0.26 : 100$;
   $e.$ $0.0384 \cdot 100$;　$f.$ $0.0025 \cdot 1000$;　$g.$ $0.05 : 10$;　　　$h.$ $21.19 : 1000$;

2. How far the cyclist will travel at the speed of 12 km/h in 0,4 hours? In 0.25 hours? In 1 hour and 15 minutes?

3. Compare **without** doing calculations:

   $a.$ $2.76 \cdot 3.1$ ... $2,76$　　　$b.$ $5 \cdot 0.3$ ... 0.3　　　$c.$ $0.4 \cdot 0.37$ ... 0.4

   $d.$ $41.2 \cdot 0.2$ ... 41.2　　　$e.$ $0.75 \cdot 1$ ... 0.75　　$c.$ $0.2 \cdot 0.58$ ... 0.58

4. Write five numbers, the first of which is 1.44 and each next is 1.5 times greater. Can we continue this sequence indefinitely?

5. Write five numbers, the first of which is 2.25 and each next is 0.8 of the previous. Can we continue this sequence indefinitely?

6. Evaluate by the most convenient way:

   $a.$ $0.2 \cdot 7.8 \cdot 5$;　　$b.$ $0.5 \cdot 3.9 \cdot 20$;　　$c.$ $2.5 \cdot 125 \cdot 8 \cdot 4$;　　$d.$ $14 \cdot 8 \cdot 0.125 \cdot 0.2$

7. A few kids went to the forest to pick mushrooms. If Anya gives half of her mushrooms to Vita, all the children will have equal number of mushrooms, if instead Anya gives all her mushrooms to Sasha, then Sasha will have as many mushrooms as all the other kids combined. How many kids went to the forest for mushrooms?

8. 1 kilogram of candies costs 16 dollars. How much

   a. 0.5 kg will cost?

   b. 1.2 kg will cost?

   c. 0.75 kg will cost?

   d. 0.4 kg will cost?

e. 2.5 kg will cost?

9. If Mark will buy 15 notebooks he will have 7 dollars left, if he will buy 20 such notebooks he will need 8 more dollars. How much money does Mark have?