

## Math 4d, Homework 16.



1. Evaluate (try to do it by the easiest way:

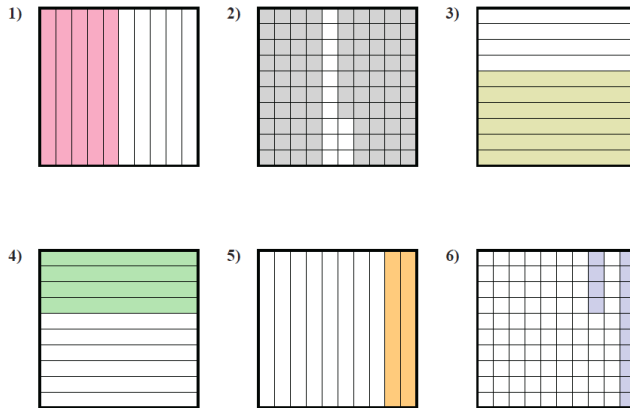
a.  $1.2 + 2.3 + 3.4 + 4.5 + 5.6 + 6.7 + 7.8 =$

b.  $2.3 + 3.4 + 4.5 - 5.6 + 6.7 + 7.8 + 8.5 + 9.2 =$

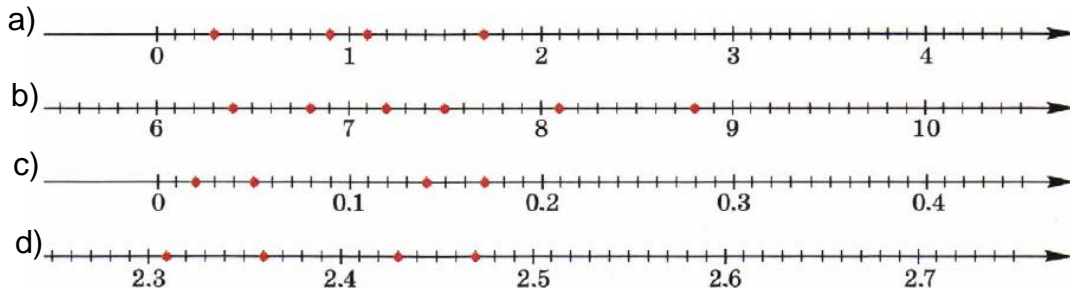
c.  $1.7 + 3.3 + 7.72 + 3.28 + 1.11 + 8.89 =$

d.  $18.8 + 19 + 12.2 + 11.4 + 0.6 + 11 =$

2. Which part of the squares are shaded? Write your answer in decimals and as a reduced (if possible) fraction.



3. Which numbers are marked on the number lines below:



4. Draw a number line in your notebook, use 10 squares as a unit. Mark points with coordinates 0.1, 0.5, 0.7, 1.2, 1.3, 1.9.

5. Example;  $1 \text{ cm} = 0.01 \text{ m}$

Which part of 1 m is 1 cm?

Which part of 1 km is 1 m?

Which part of 1 cm is 1 mm?

Which part of 1 m is 1 dm?

Which part of 1 kg is 1 g?

Which part of 1 g is 1 mg?

(There are 10 decimeters in 1 meter, 10 millimeters (mm) in 1 centimeter, 1000 meters in 1 kilometer. Prefix deci- means one tenth, centi – one-hundredth, milli- one thousandth).

6. Write decimals as fractions and evaluate the following expressions:

a.  $\frac{2}{3} + 0.5$ ;

b.  $\frac{1}{3} \cdot 0.9$ ;

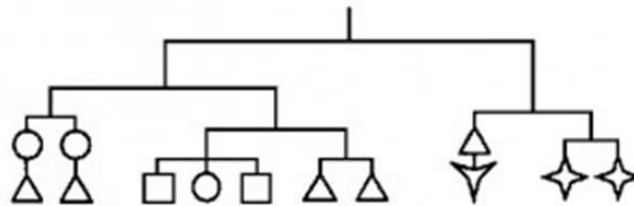
c.  $\frac{3}{16} \cdot 0.64$

d.  $0.6 - \frac{2}{5}$ ;

e.  $0.4 : \frac{2}{7}$ ;

f.  $\frac{9}{20} : 0.03$

7. On the picture below, every arm of the balance is in equilibrium. (The horizontal bars are suspended at their midpoints.) Identical shapes have identical masses. The mass of the square is 1 kg. What are the masses of the other shapes?



8. There are singers and dancers in our class.  $\frac{1}{5}$  of all singers also dance and  $\frac{1}{4}$  of all dancers also sing. Are there more singers or dancers in our class?