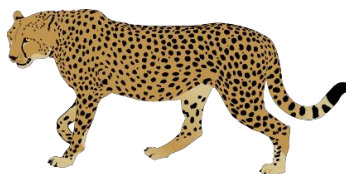


Math 4d. Homework 21.

1. Represent the following values of speed in $\frac{km}{h}$ units and connect to the appropriate pictures.



$$5.4 \frac{m}{h} =$$



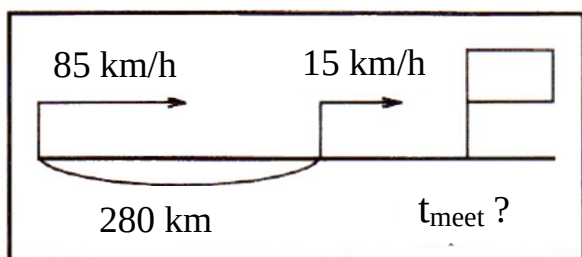
$$91.7 \frac{m}{min} =$$



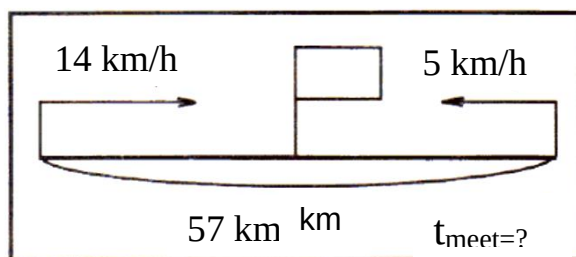
$$1.83 \frac{km}{min} =$$

2. For the four pictures below, come up with the problem and solve it.

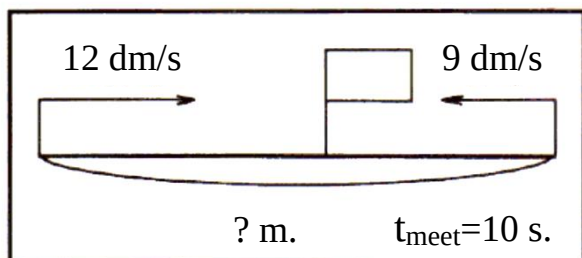
a)



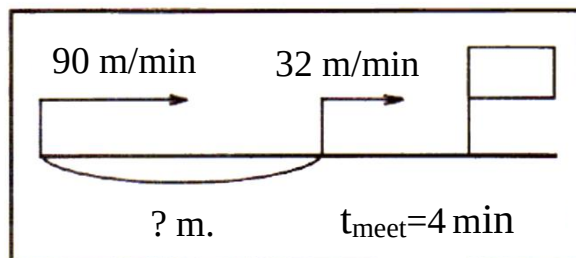
c)



b)



d)



3. The ratio of roses and hibiscuses in the garden is $\frac{9}{11}$. What is the total number of flower bushes in the garden, if there are 99 rose bushes?
4. There are 21 juice bottles out of which 7 bottles are full, 7 are half-full and the remaining 7 are empty to be divided among 3 friends equally. You don't have any measuring device. How will you divide them (both bottles and juice) equally?
5. Draw the segment $AB = 6cm$. Mark the point B in such a way that the ratio of the length of the segments are

$$a. \frac{AC}{BC} = 1, \quad b. \frac{AC}{BC} < 1; \quad c. \frac{AC}{BC} > 1; \quad d. \frac{AC}{BC} = 2$$

6. 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?
7. Evaluate, hint: represent decimals as fractions.

$$a. \frac{21.75 - 18\frac{3}{8}}{1.8:0.4 \cdot 0.4}$$

$$b. \frac{\left(2\frac{5}{6} + 1.75\right) \cdot 0.14}{2\frac{1}{3} \cdot 1.1:1.6}$$