

1. Meters, kilometers, centimeters:

$$1 \text{ kilometer (km)} = 1000 \text{ meters (m)}$$

$$1 \text{ meter} = 100 \text{ centimeters (cm)}$$

$$1 \text{ hour (h)} = 60 \text{ minutes (min)}$$

$$1 \text{ minute (min)} = 60 \text{ seconds (s)}$$

Represent speed in km.p.h units and find out who's speeds are there.

a. $83 \frac{\text{cm.}}{\text{min.}}$; b. $83 \frac{\text{m.}}{\text{min.}}$; c. $31 \frac{\text{m.}}{\text{s.}}$ d. $83 \frac{\text{cm.}}{\text{s.}}$; e. $800 \frac{\text{m.}}{\text{min.}}$

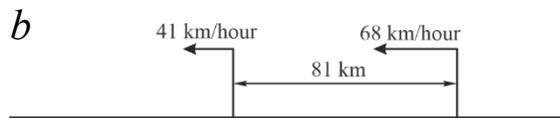


2. Represent speed:

$$36 \frac{\text{km}}{\text{h}} \text{ as } \left(\frac{\text{m(meter)}}{\text{s(second)}} \right)$$

$$6 \frac{\text{m}}{\text{s}} \text{ as } \left(\frac{\text{km}}{\text{min}} \right)$$

3. For the picture, come up with the problem and solve it.



distance at the beginning = 81 km.
t meeting \rightarrow ? h.

4. A pedestrian covers a distance in 3 hours 45 minutes. The same distance can be covered by bicycle in 45 minutes. How many times faster does a cyclist travel than a pedestrian walk?
5. Are the expressions equal? If not, then **how many times** first is greater or less than the second?

a. $14.56 : 1.82$ and $145.6 : 1.82$;

c. $14.56 : 1.82$ and $14.56 : 182$;

e. $14.56 : 1.82$ and $145.6 : 18.2$;

g. $14.56 : 1.82$ and $1456 : 18.2$;

b. $14.56 : 1.82$ and $0.1456 : 1.82$;

d. $14.56 : 1.82$ and $14.56 : 0.182$;

f. $14.56 : 1.82$ and $1.456 : 0.182$;

h. $14.56 : 1.82$ and $1.456 : 0.0182$;

6. On the lawn grew 35 yellow and white dandelions. After eight whites flew away, and two yellows turned white, there were twice as many yellow dandelions as white ones. How many whites and how many yellow dandelions were on the lawn at the beginning?
7. Construct rectangle ABCD using the coordinates of its vertices: A(3; 2), B(3; 6), C(9; 6). Draw the diagonals of this rectangle and find the coordinates of their intersection point.
8. Evaluate:

a. $\frac{6}{7} \cdot \frac{7}{12} \div \frac{5}{16}$;

b. $\frac{9}{10} \div \frac{10}{11} \cdot \frac{100}{21}$;

c. $\frac{7}{25} \div \frac{3}{10} \cdot \frac{5}{6}$;

d. $\frac{\frac{3}{4} + 2}{1 - \frac{3}{4}}$;

e. $\frac{\frac{7}{3} - 2}{1 + \frac{7}{3}}$;

f. $\frac{1 + \frac{3}{2}}{\frac{3}{2} - 1}$;