Homework 20.



- 1. Peter's speed is $5\frac{1}{5}\frac{km}{h}$ (kph). How far will he go in
 - a. 2 hours
 - b. $1\frac{1}{5}$ hour
 - c. 45 minuts
 - d. 125 minuts

(Represent the result in kilometers and meters, for example: 1km 250 m.)

- 2. 1.5 km Julia walked in 20 minutes. What was her speed? Represent your answer in

 - a. $\frac{km}{h}$; b. $\frac{km}{min}$; c. $\frac{m}{h}$; d. $\frac{m}{min}$
- 3. The caterpillar is crawling along the trunk of a poplar. In the first hour, it rose by 10 cm. In the second hour, it dropped by 4 cm. In the third hour, it rose again by 10 cm. And in the fourth hour, it dropped by 4 cm. The caterpillar continued to rise and fall for several hours. How many centimeters will the caterpillar have risen in 11 hours?
- 4. Represent the following values of speed in km per hour units and connect to the appropriate pictures.





$$92\frac{m}{min}$$
;



$$1\frac{4}{5}\frac{km}{min}$$
;

5. Evaluate:

a.
$$\frac{-1.5 + (-1)}{-1.5 - (-1)}$$

b.
$$\frac{1.5 - (-3.5)}{1.5 + (-3.5)}$$

c.
$$\frac{-2.5 + 0.4}{-2.5 \cdot 0.4}$$

a.
$$\frac{-1.5 + (-1)}{-1.5 - (-1)}$$
; b. $\frac{1.5 - (-3.5)}{1.5 + (-3.5)}$; c. $\frac{-2.5 + 0.4}{-2.5 \cdot 0.4}$; d. $\frac{-0.5 \cdot (-0.6)}{-0.5 - 0.6}$

- 6. Write the smallest 3-digit multiple of 3, whose first digit is 7.
- 7. There are 32 students in the class, and each student plays at least one of two sports: soccer or basketball. 18 students play soccer, and 20 students play basketball. How many students play both sports?
- 8. Compare fractions without bringing them to common denominator:

$$\frac{1}{4}$$
 and $\frac{1}{5}$; $\frac{1}{10}$ and $\frac{1}{100}$; $\frac{1}{101}$ and $\frac{1}{100}$; $\frac{1}{50}$ and $\frac{1}{60}$;

$$\frac{3}{4}$$
 and $\frac{3}{5}$; $\frac{7}{10}$ and $\frac{7}{12}$; $\frac{9}{16}$ and $\frac{9}{17}$; $\frac{11}{15}$ and $\frac{11}{14}$;

$$\frac{2}{9}$$
 and $\frac{7}{8}$; $\frac{9}{10}$ and $\frac{10}{9}$; $\frac{5}{9}$ and $\frac{3}{8}$; $\frac{2}{7}$ and $\frac{7}{12}$;

9.