1. Distance $(S)$, speed $(v)$ and time $(t)$ are connected by the relationship:

$$
S=t \cdot v
$$

If something is moving at a speed $v\left(\frac{\text { unit of distance }}{\text { unit of time }}\right)$ during the time $t$ (unit of time) it can cover the distance $S$ (unit of distance).
If distance and time of the motion are known, the speed at which the object was moving can be found from the relationship $S=t \cdot v$ :

$$
v=\frac{S}{t}
$$

If the distance and the speed of the motion are known, the time can be found:

$$
t=\frac{S}{t}
$$

Find the unknowns:
a. $v=6 \frac{\mathrm{~m}}{\mathrm{~min}} ; \quad t=15 \mathrm{~min}, \quad S=$ ?
b. $S=8 \mathrm{~km} ; \quad t=2 \mathrm{~h}, \quad v=$ ?
c. $S=57 \mathrm{~km} ; \quad t=19 \mathrm{~min}, \quad v=$ ?
d. $S=20 \mathrm{~km} ; \quad v=10 \frac{\mathrm{~m}}{\mathrm{~min}}, \quad t=$ ?
2. Evaluate:
a. $2.1^{2}-2.1$;
b. $0.9-0.9^{2}$;
c. $2 \cdot 0.8^{2}$;
c. $(2.5-0.5)^{2}$;
d. $(2 \cdot 0.8)^{2}$;
e. $2.5^{2}-0.5^{2}$;
3. Grandma Polly is preparing strawberry jam. One jar was made with 500 g of strawberries and 120 g of sugar, while another jar contains 600 g of berries and 180 g of sugar. Which jam is sweeter?
4. The car's tank holds 15 gallons of gasoline. How many gallons of gasoline are in the tank if it is filled to $55 \%$ ?
5. In the school president election, votes were divided as $3: 2$ between two candidates. What portion of all students voted for the winner? What percentage of the votes did he receive?

