

Math 4b. Homework 23.



1. Find:

- a. 50% from 7.8 kg
- b. 140% from 5.2 km
- c. 5% from \$8790
- d. 18% from 70 cm^2

2. 72 students (18% of all students in the school) went on a field trip. How many students are there in the school?

3. Alex, Boris, and John were picking mushrooms. Boris collected 20% more mushrooms than Alex but 20% fewer than John.

By what percentage did John collect more mushrooms than Alex?

4. The mass of a chicken egg is 80 g. The egg white makes up 55% of the total mass, and the yolk is 75% of the mass of the egg white. Find the mass of the eggshell.

5. Evaluate:

- a. $(-1)^2$;
- b. $(-1)^3$;
- c. $(-1)^8$;
- d. $(-1)^{16}$;
- e. $(-1)^{21}$;
- f. $(-1)^{48}$;

6. It is known, that $1004 \cdot 742 = 744968$. Using this equality find the answer for:

- a. $-10.04 \cdot 7.42$;
- b. $-1.004 \cdot (-7.42)$;
- c. $10.04 \cdot (-74.2)$;
- d. $-100.4 \cdot (-74.2)$;
- b. $0.1004 \cdot (-0.742)$;
- c. $-1.004 \cdot 0.742$;

7. Seven dwarfs found seven diamonds, whose weights turned out to be 3, 6, 9, 12, 15, 18, and 21 carats, respectively. Snow White placed these diamonds into four boxes in such a way that the total weight of the diamonds in each box was equal.

How did Snow White distribute the diamonds found by the dwarfs?

