Homework for Lesson № 2

Square Decimeter and Square Meter

1 m = 10 dm = 100 cm

$1\ m^2 = 100\ dm^2 = 10{,}000\ cm^2$

1 m = 10 dm = 100 cm

	1 dm²	100 cm²						
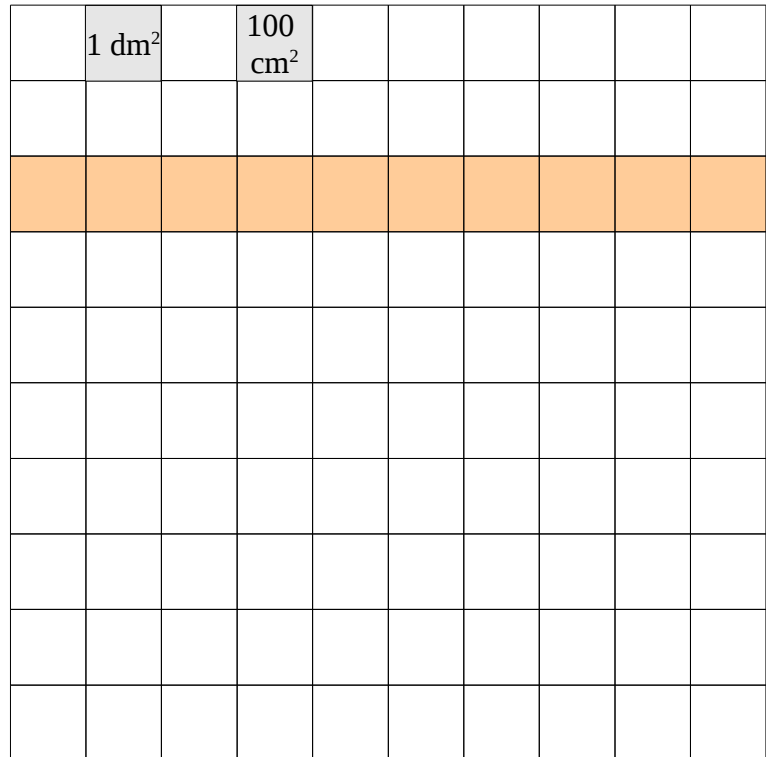
1 Square meter:

$2\ m^2 =$ _____ dm^2

$300\ dm^2 =$ _____ m^2

$500\ dm^2 =$ _____ m^2

$7\ m^2 =$ _____ cm^2

$900\ dm^2 =$ _____ m^2

2 Compare:

$200\ cm^2 \square 3\ dm^2$ $500\ dm^2 \square 5\ m^2$ $30\ dm^2 \square 1\ m^2$

$300\ dm^2 \square 300\ m^2$ $70\ cm^2 \square 7\ dm^2$ $20\ m^2 \square 200\ cm^2$

$7\ m^2 \square 700\ dm^2$ $9\ m^2 \square 900\ cm^2$ $9\ dm^2 \square 900\ cm^2$

$600\ dm^2 \square 8\ m^2$ $6\ dm^2 \square 80\ cm^2$ $4\ m^2 \square 400\ cm^2$

3 Convert:

$400\ cm =$ _____ dm $400\ cm^2 =$ _____dm^2 $400\ cm =$ _____ m

$700\ dm^2 =$ _____ m^2 $2\ m =$ _____ $cm =$ ___ dm $6\ m^2 =$ _____ dm^2

$2\ dm^2 =$ _____ cm^2 $50\ dm =$ _____ $cm =$ ___ m $800\ dm^2 =$ _____ m^2

Mixed Word Problems

4

A basket contains 5 oranges. Another basket contains *x* oranges. How many oranges are in both baskets?

_____

Each box contains 12 pencils. How many pencils are in *x* such boxes?

_____

A can contains 5 cookies. Another can contains *x* more cookies than the first one. How many cookies are in both cans?

_____

A bicycle moves 20 km each hour. How far will it move in *q* hours?

_____

Grandma puts jam into 4 liter bottles. How many bottles of jam did she fill if she ended up with *y* bottles?

_____

5 Measure the rectangles and find their areas:

a =

S =

b =

b =

S =

a =
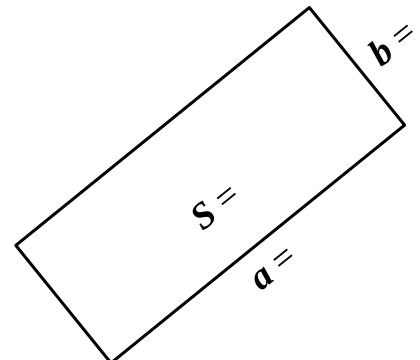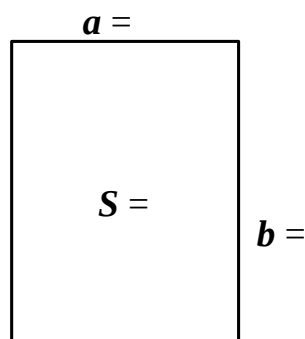
Equations

6 **In your notebook** solve the equations below. Use diagrams to help you if you want.

$27 - x = 18$ $y + 300 = 800$ $z - 312 = 188$

7 ### Expressions and Programs:

- Determine the order of operations in the expressions below.
- **In your notebook** write programs to compute the values of these expressions.
- Show how each step transforms the original expression like in the provided sample.

a). $y \times 4 - 5$ *b*). $z - x \div t + 1$ *c*). $(z - x) \div t + 1$

<div>

②　①　③

Sample:　　$a + (15 - x) + 12$

1: $15 - x$　　　$a + ① + 12$

2: $a + ①$　　　$② + 12$

3: $② + 12$　　　$③$

</div>

8 **Complete four equations using addition and subtraction.**

$16 + 24 = 50$ $27 + 5 =$

$24 +\quad =$ $\quad +\quad =$

$50 - 24 =$ $\quad -\quad =$

$50 -\quad =$ $\quad -\quad =$
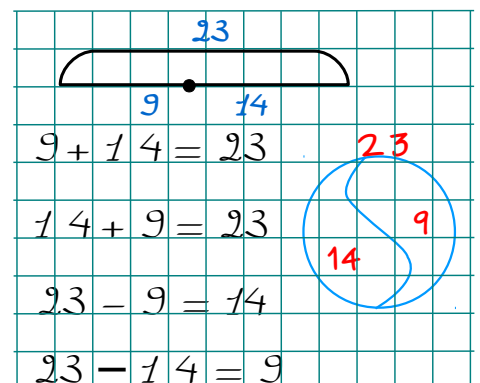
9   Replacements:

- Use replacement to simplify the following equations.
- Write the transformed equations according to the sample.

$$X:5 - 2 = 3 \quad \xrightarrow{\;y\;=\;x:5\;} \quad y - 2 = 3$$

$$27 - p\bullet2 = 9 \quad \xrightarrow{\;z=\;p\bullet2\;} \quad \boxed{}$$

$$X:3 + 2 = 6 \quad \xrightarrow{\;q\;=\;} \quad \boxed{}$$

$$24:W + 4 = 8 \quad \xrightarrow{\hspace{2cm}} \quad \boxed{}$$

Equations and operations:

10   Use the diagrams below to solve the following equations:

$x + 5 = 15$

$x =$

$x =$

$+ 5$

x $\boxed{}$

$- 5$

$y - 8 = 7$

$y =$

$y =$

$- 8$

y $\boxed{}$

$q : 5 = 7$

$:5$

q $\boxed{}$
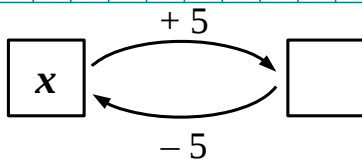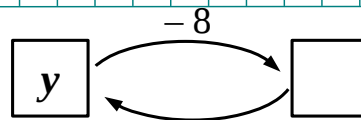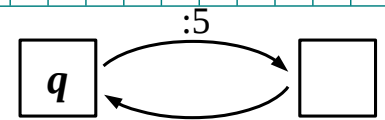
11   Calculate:

$8 \times 7 \div 7 =$ $9 \times 7 \div 7 =$ $w \times 7 \div 7 =$

$25 \div 5 \times 5 =$ $35 \div 5 \times 5 =$ $x \div 5 \times 5 =$

12   Calculate:

$$614 - 329$$
$$407 - 309$$
$$502 + 235$$
$$700 + 521$$