

# Homework 8

1. Write the correct answer in each box

1. 
$$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 143 \\ \times 6 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 48 \\ \times 7 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 314 \\ \times 9 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 59 \\ \times 4 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 134 \\ \times 5 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 686 \\ \times 2 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 297 \\ \times 8 \\ \hline \end{array}$$

2.

Jordan has 156 guppies. He has 6 times as many guppies as Daniel. How many guppies do they have altogether?

3.

Henry and Victor collect 200 stamps altogether. Henry collects 4 times as many stamps as Victor. How many stamps does each of them collect?

4.

Arrange the digits 3,2,4,7 in the boxes below to get the smallest product.

$$\begin{array}{r} \square \square \square \\ \times \quad \square \\ \hline \end{array}$$

5.

Fill in each box with the correct number

$$7 \times \boxed{\phantom{00}} = 49$$

$$72 \div \boxed{\phantom{00}} = 8$$

$$\boxed{\phantom{00}} \times 10 = 100$$

$$\boxed{\phantom{00}} \times 6 = 48$$

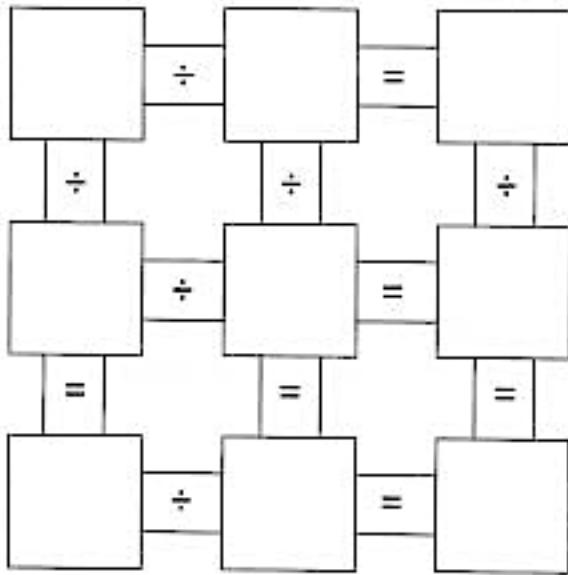
$$6 \times \boxed{\phantom{00}} = 4 \times 9$$

$$\boxed{\phantom{00}} \div 7 = 40 \div 8$$

$$9 + 9 + 9 + \boxed{\phantom{00}} = 7 \times 9$$

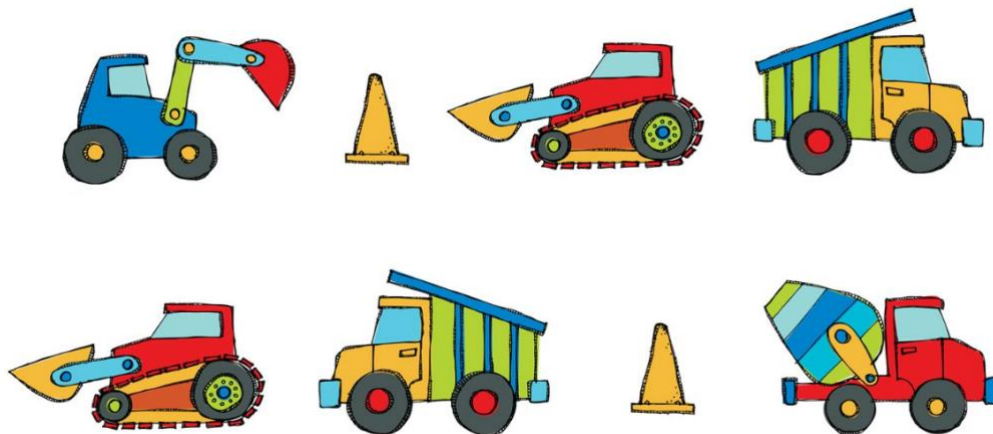
$$100 - \boxed{\phantom{00}} = 9 \times 8$$

6. Fill in the boxes using the given numbers 1,2,3,3,4,6,8,24



7.

Compare the elements of the sets in the first and the second rows. Is there an element in the first row, which is not in the second row? Is there an element in the second row, which is not in the first row?



8.

Construct a set A, which is equal to the set D, and a set B which is not equal to the set D.

$$D = \{a; \text{🐛}; 5\}$$

A = \_\_\_\_\_;

B = \_\_\_\_\_

9.

a) Construct all sets which are equal to the set  $A = \{ \text{☕}; \text{🍰}; \text{🍲} \}$

b) Construct all sets which are equal to the set  $C = \{a, b, c\}$

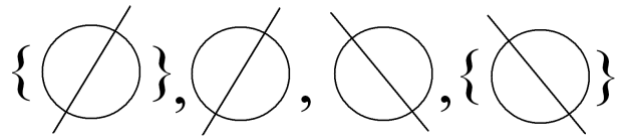
10

How many elements are there in the set of:

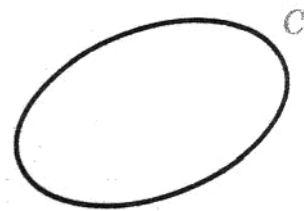
- a) days of a week;
- b) letters in the alphabet;
- c) tails of a cat;
- d) noses of Anna;
- e) horses living on the Moon.

**11**

Find the notation of an empty set. Cross out the rest of the notations.

**12**

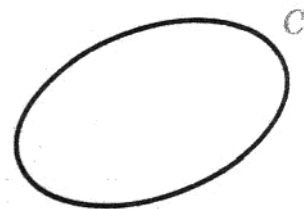
Mark the following elements  $\triangle, \square, d, 10, \star, 5$  on the diagram of a set  $C$  if we know that:



$d \in C$     $\square \in C$     $5 \in C$   
 $\star \in C$     $\triangle \in C$     $10 \in C$

**13**

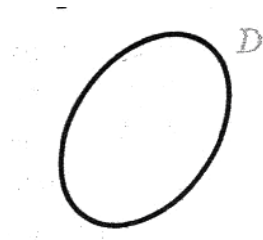
Mark the following elements  $\triangle, \square, d, 10, \star, 5$  on the diagram of a set  $C$  if we know that:



$d \in C$     $\square \in C$     $5 \in C$   
 $\star \in C$     $\triangle \in C$     $10 \in C$

D is the set of 2-digit numbers:

- a) State, by using the symbols  $\in$  and  $\notin$ , if the following numbers belong to the set D: 26, 307, 8, 940, 15, 60. Mark them on the diagram:



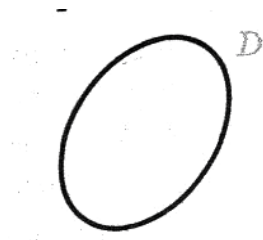
- b) What are the smallest and the largest numbers that belong to the set D?

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- c) How many elements are in the set D?

D is the set of 2-digit numbers:

- d) State, by using the symbols  $\in$  and  $\notin$ , if the following numbers belong to the set D: 26, 307, 8, 940, 15, 60. Mark them on the diagram:



- e) What are the smallest and the largest numbers that belong to the set D?

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- f) How many elements are in the set D?