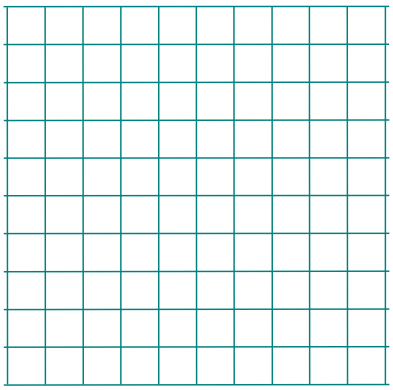
Homework for Lesson № 15

1 Write equations to solve the word problems.

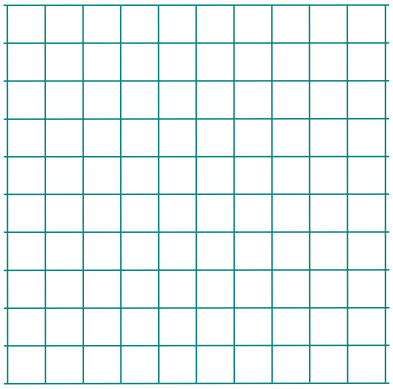
In a class of 36 students, the number of girls is 6 more than 5 times less than the number of boys. Find the number of girls in the class?



_____

_____

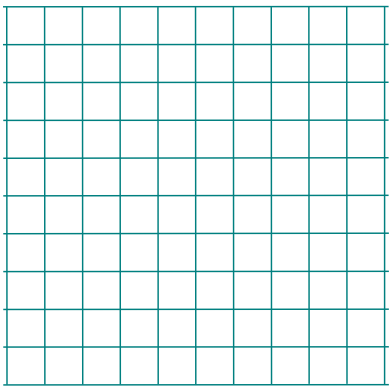
Marina's weight is 4 kg more than twice her sister's weight. Marina's weight is 50 kg. How much does her sister weigh?



_____

_____

The first stage of a rocket burns 20 seconds longer than the second stage. If the total burning time for both stages of the rocket is 160 seconds, how long does each stage burn?



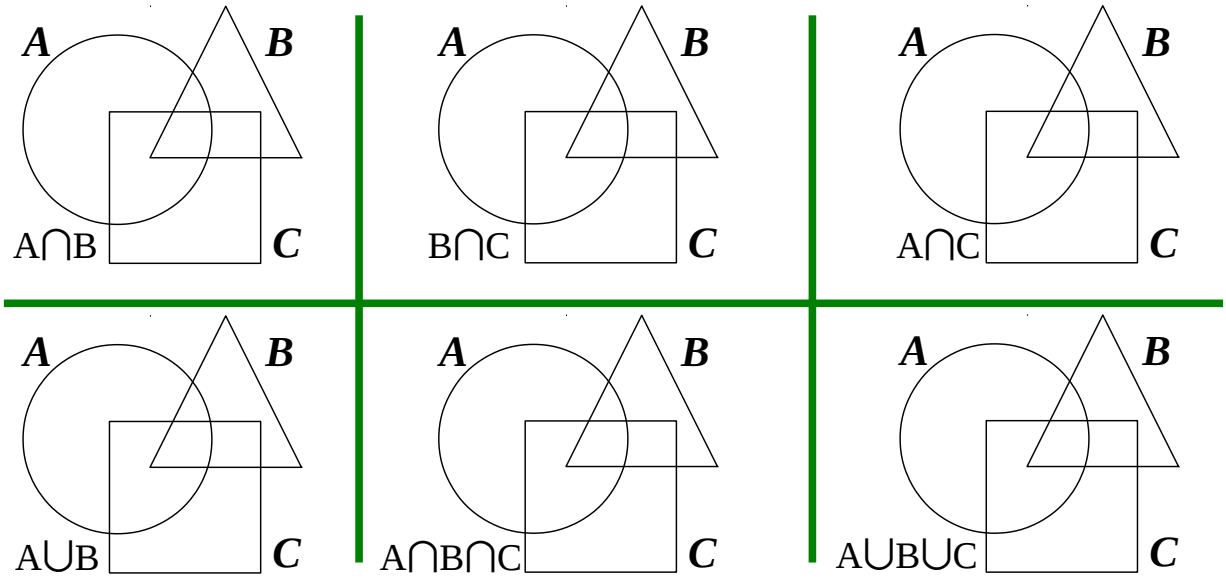
_____

_____

2 Divide in your notebook and copy your answer here:

2976: 4 =	5831 : 7 =	2912 : 7 =	1005 : 5 =
1078 : 2 =	2414 : 6 =	4288 : 8 =	7840 : 8 =

3 Color the intersections and unions of the sets below:



4 Make a Venn diagram to solve the following problem:

Little Joe decided to become a painter. He painted 42 paintings in one month. There was a forest on 17 of them and 29 of them had a river; 13 of them had both. The rest of the paintings had "something else" on them. How many paintings have "something else" on them?

5 Something happened at the Emperor's Palace on the Cat Island today. Somebody stole his favorite spoon. It is very well known on the Cat Island that those who steal spoons always lie.

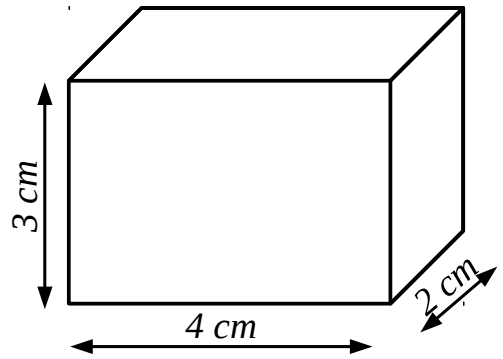
The Secretary said: "*I know who stole the spoon*".

Was the Secretary guilty?

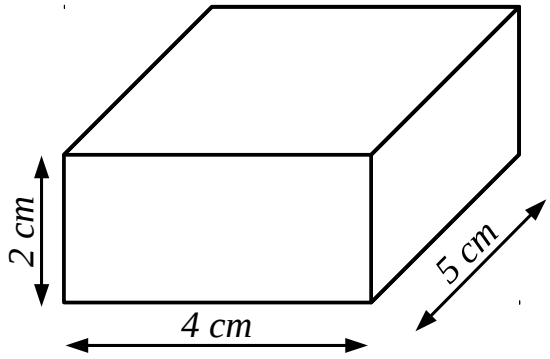
6 Calculate:

$$\begin{array}{r} 149 \\ \times\ 51 \\ \hline \end{array} \qquad \begin{array}{r} 598 \\ \times\ 42 \\ \hline \end{array} \qquad \begin{array}{r} 492 \\ \times\ 64 \\ \hline \end{array}$$

7 Find the volumes of the parallelepipeds:

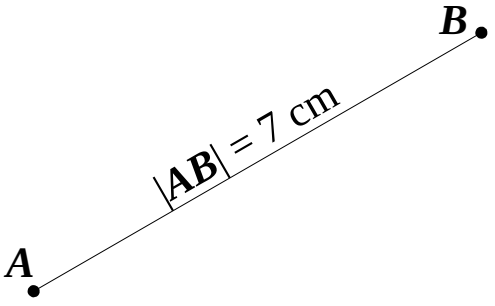


V = _____cm^3

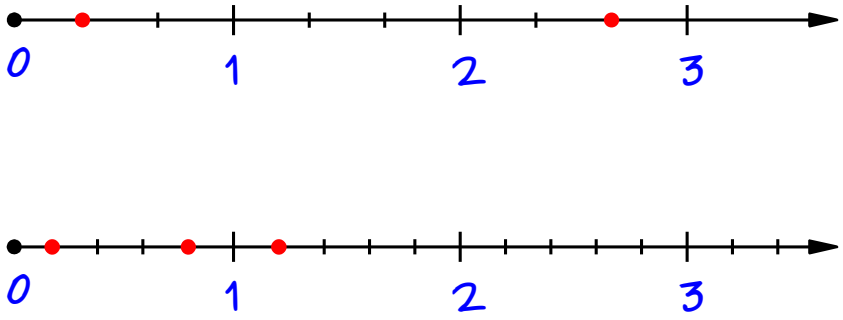


V = _____cm^3

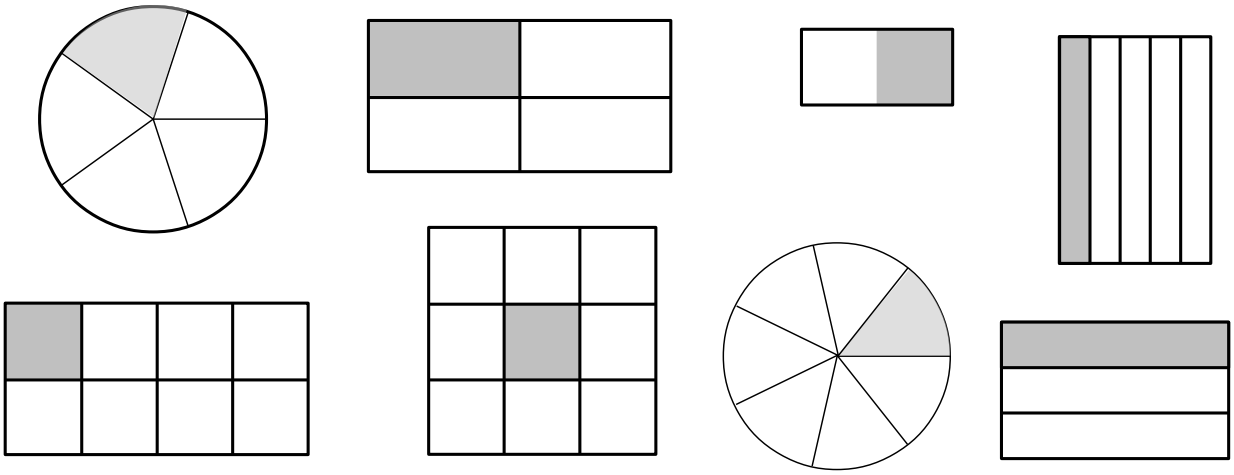
8 Find points C_1 and C_2 located 4 cm away from point ***A*** and 6 cm away from point ***B***.



9 Which fractions are labeled on the number lines?



10 Which fractions are presented by the diagrams:



11 Plot △***ABC*** using coordinates of its vertexes: ***A***(6,4), ***B***(8, 9), ***C***(11,2)

Move △***ABC*** 4 units left AND 2 units down to produce △***A'B'C'***.

Shade △***A'B'C'*** and label its vertexes.