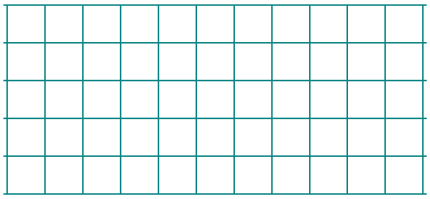
Lesson № 15

1

A pencil costs ***a*** dollars. How much do we have to pay for 2 boxes of pencils if the first box contains ***m*** pencils, and the second box contains ***n*** pencils?



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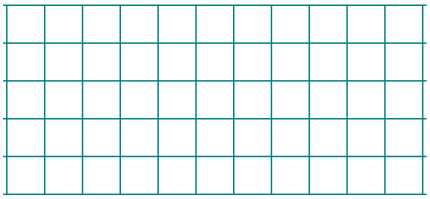
A table costs ***x*** dollars, and a chair costs ***y*** dollars. How much is the cost of 2 tables and 8 chairs?



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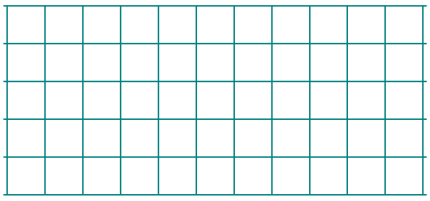
c dollars can buy 5 pounds of apples. How much do 8 pounds of the apples cost?



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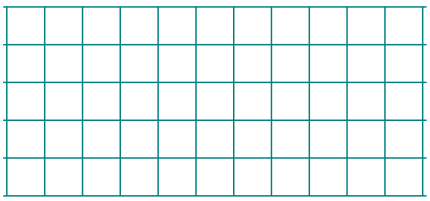
* ***c*** dollars can buy 5 pounds of apples. How many pounds of apples can ***d*** dollars buy?



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2

I thought of a number; then added 900. The result was a number less than 1000.

Check ✓ correct statements and cross mark ✕ the false ones:

a) The number I first thought of must be less than 100 ☐

b) The number I first thought of must be less than 99 ☐

c) The number I first thought of could be equal 99 ☐

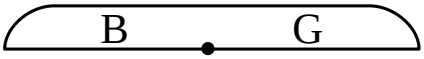
d) The number I first thought of could not be more than 99 ☐

e) The number I first thought of could be equal 10 ☐

f) The number I first thought of could not be equal 100 ☐

3 **Fill in the auxiliary drawings and write equations for each problem.**

The total number of students in a school is 656. The number of girls is 86 more than the number of boys. How many boys are in the school?



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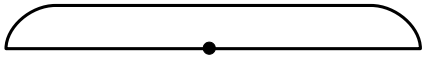
The sum of two numbers is 85. The greater number is 13 more than the smaller number. What is the smallest number?



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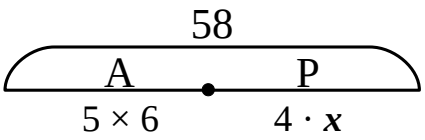
On a table there are 6 plates with 5 apples in each. There are 4 pears in each basket. Totally there are 58 fruits on the table. How many baskets with pears are on the table?



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4 Use the long division algorithm to calculate the following.

1630 : 5 = 5067 : 9 = 1020 : 6 =

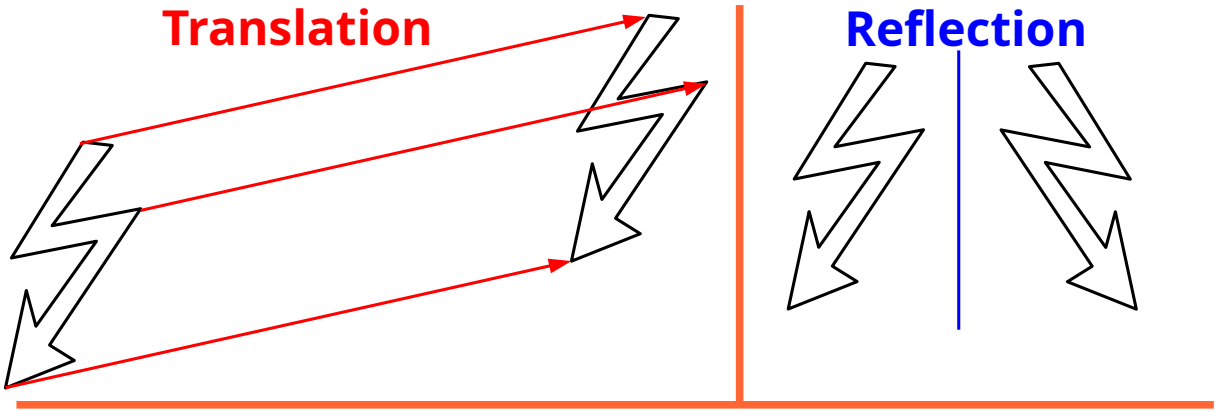
5)1 6 3 0

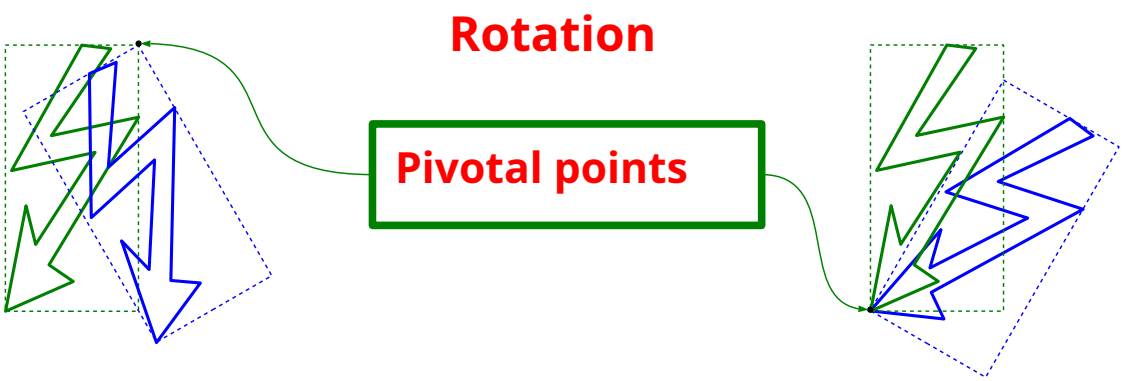
Translation. Reflection. Rotation.

Translation is a motion in which a shape slides along a certain direction.

Rotation is a motion in which a shape turns around a pivotal point on a certain angle. Rotations around different pivotal points move the same shape differently.

Reflection is transformation of a shape in a plane mirror. Reflection is not a motion of an object.

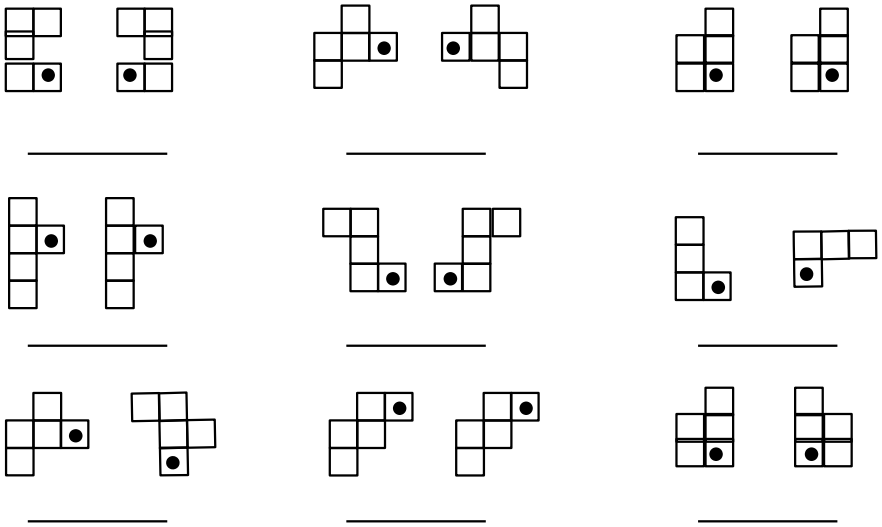




5

Tell how each figure was moved.

Write translation, rotation, or reflection.



6 What can and cannot be divided with a remainder.

Compare three problems and their solutions:

Problem 1: *Little Joe needs to give distribute 14 cans of milk from their storage among the four brothers. How many cans will each one receive?*

Solution: 14 : 4 = 3 rem 2

What does the remainder mean?

Probably, these two cans will remain in their storage.

Problem 2: *Foxy tail needs to dig his way to the Cheese Factory, that is **24 m** away from his house. He digs 4 meters in one day. How long will it take him to get to the Cheese Factory?*

Solution: 24 : 4 = 6

So, Foxy tail will dig these 24 meters in 6 days

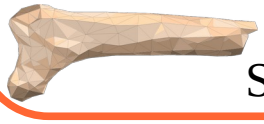
Problem 3: *Foxy tail needs to dig his way to the Cheese Factory, that is **21 m** away from his house. He digs 4 meters in one day. How long will it take him to get to the Cheese Factory?*

Solution: 21 : 4 = 5 rem 1

Does remainder mean that Foxy tail can dig 24 meters in 6 days but will never make it to the factory if it is 3 meters closer?

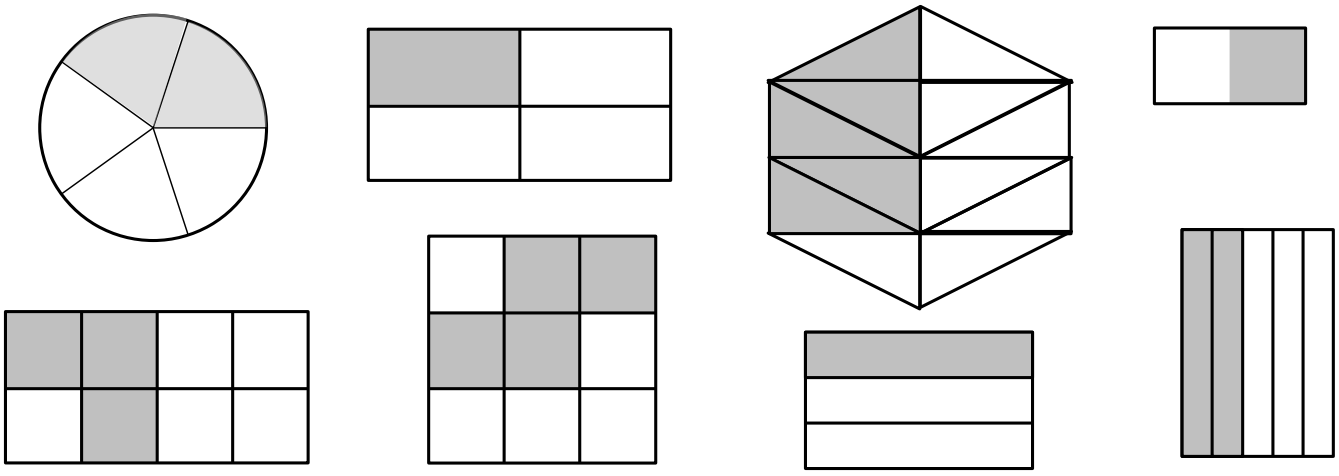
Sometimes dividing with a remainder makes no sense.

Sometimes a whole thing has to be divided into pieces.

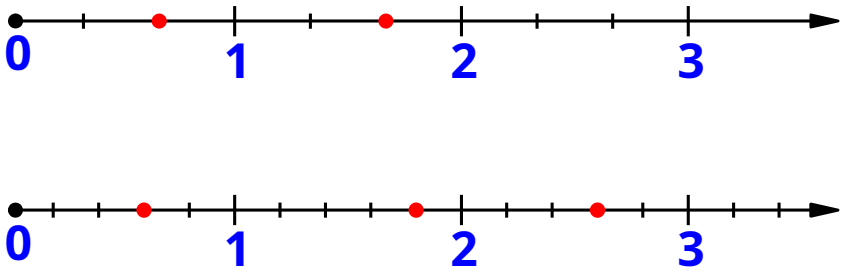


Such pieces are called **fractions**

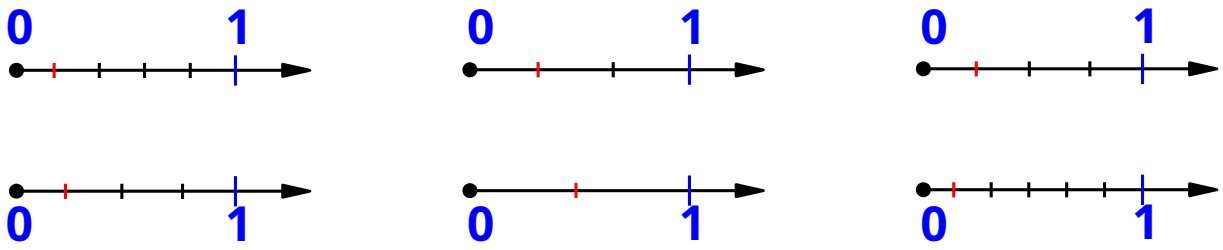
7 Which fractions are represented on the drawings?



8 Which fractions are marked on the number line?



9 Use the number lines to compare fractions:



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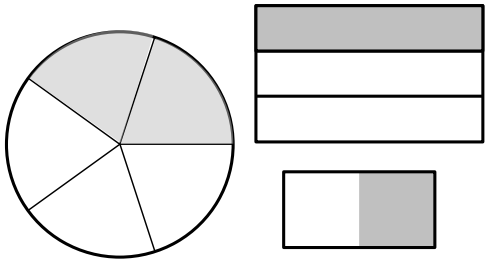
10 Compare:

$\frac{1}{2} \square \frac{1}{3}$ $\frac{1}{4} \square \frac{1}{7}$ $\frac{1}{3} \square \frac{1}{5}$ $\frac{1}{2} \square \frac{1}{6}$

$\frac{1}{7} \square \frac{1}{9}$ $\frac{1}{4} \square \frac{1}{3}$ $\frac{1}{6} \square \frac{1}{11}$ $\frac{1}{5} \square \frac{1}{8}$

11 Unit as a fraction:

$1 = \frac{1}{1} = \frac{2}{\square} = \frac{3}{\square} = \frac{\square}{4} = \frac{\square}{\square}$



12

Little Joe made a statement. Foxy tail repeated the very same statement. What statement could it be?

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Additional problems:

13 Solve the following equations:

$6y + 8 = 26$

$7x + 16 = 72$