Lesson 5
Addition and Subtraction with Regrouping

1 Calculate:

18 +3 =	25 + 7 =	28 + 4 =	19 + 7 =
37 + 6 =	54 + 8 =	87 + 4 =	68 + 8 =

2 **In your notebook,** solve the equations and write you solutions similarly to the example. Copy your answers here. Make all needed drawings.

x + 11 = 15 19 – **x** = 12 **x** – 9 = 7

3 Calculate and find which animal is encoded in the table. Are our mice scared of this animal?

51	94	51	33	60	71

64 + 7	59 + 1	46 + 5	25 + 8	87 + 7
T	A	B	C	O

4 Compare the results of the arithmetic operations below. What do you notice?

30 = ☐ t + ☐ o = ☐ t + ☐ o

20 = 2 t 0 o = 1 t ☐ o 25 = ☐ t ☐ o = 1 t ☐ o 31 = ☐ t ☐ o = 2 t ☐ o

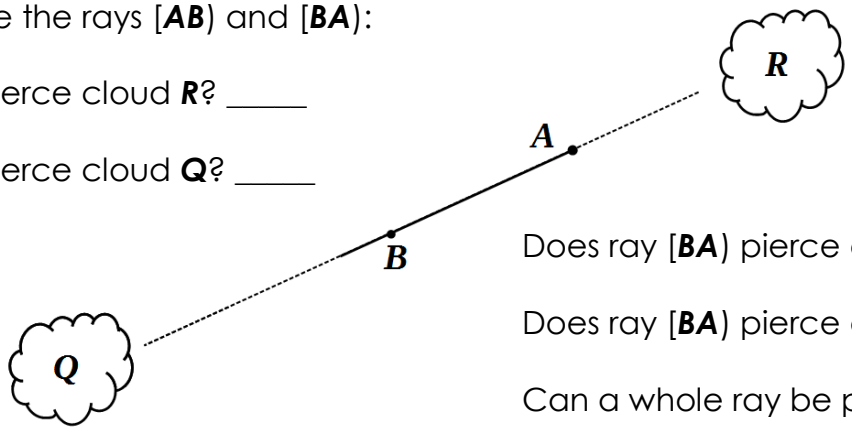
2 10 30 − 1 = 29	30 − 2	30 − 3	33 − 6	33 − 7	36 − 8	36 − 9

A **ray** is a part of a straight line; it has one endpoint and extends infinitely in one direction. The name of a ray starts with the name of the endpoint followed by the name of any other point that lies on the ray. For example, a ray has one endpoint **A** and point **B** lies on the ray, so such a ray is called **[*AB*).**

5 Compare the rays [***AB***) and [***BA***):

Does ray [***AB***) pierce cloud ***R***? _____

Does ray [***AB***) pierce cloud ***Q***? _____



Does ray [***BA***) pierce cloud ***R***? _____

Does ray [***BA***) pierce cloud ***Q***? _____

Can a whole ray be plotted? _____

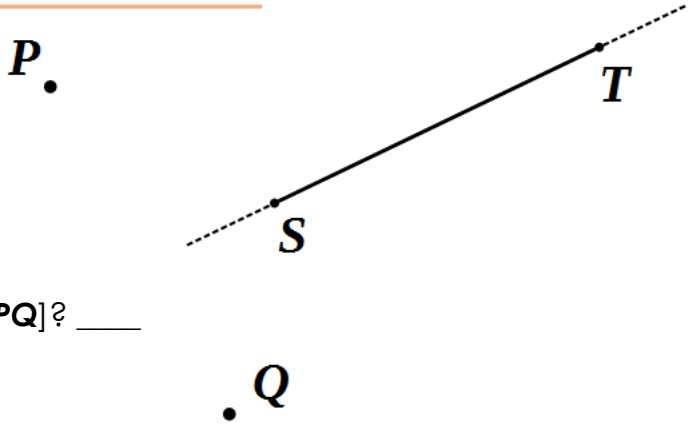
A **line segment** is the part of a straight line and it has two endpoints. The name of a segment includes the names of both endpoints. For example, a segment has two endpoints **A** and **B**, therefore, such a segment is called **[AB]**.

6 Plot straight line ***PQ***.

Trace line segment ***PQ*** with a color pencil.

Find the point where straight line ***ST*** intersects line segment [***PQ***]. Label it ***K***.

Does line segment [***ST***] intersect line segment [***PQ***]? ____

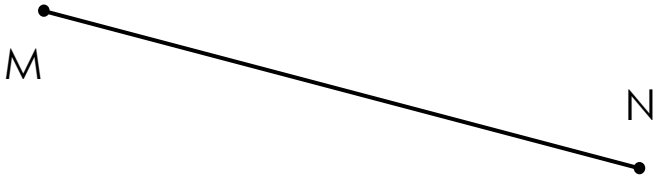


7 How many lines, rays, and segments can you name in the picture below?

Straight lines _____ Rays _____ Segments _____

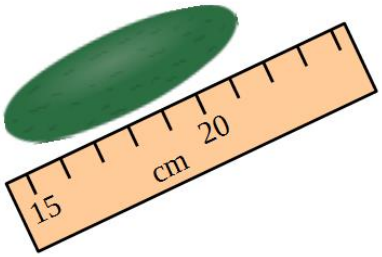
8

How long is the segment MN in cm?
How long is the segment MN in inches?



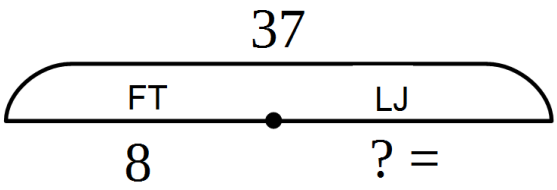
Draw segment PQ, which is 6 cm long.

How long is the cucumber (not to the scale)?



9

a) Little Joe and Foxy Tail went apple picking. Altogether they gathered 37 apples. Foxy Tail picked 8 apples. How many apples did Little Joe pick?



What do we know?

_____

What do we need to find?

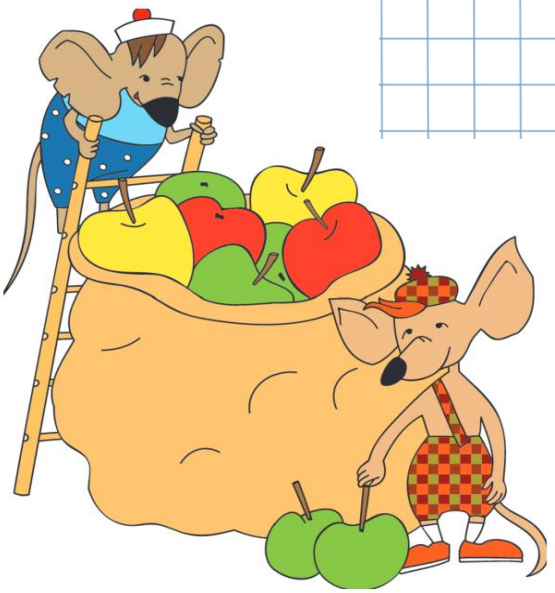
_____

What operation do we need to use to find it?

_____

What is the answer?

Little Joe picked _____ apples.



b) Little Joe and Foxy Tail again went to pick apples to bake a pie. This time Foxy Tail picked 17 apples and Little Joe picked 9 apples.

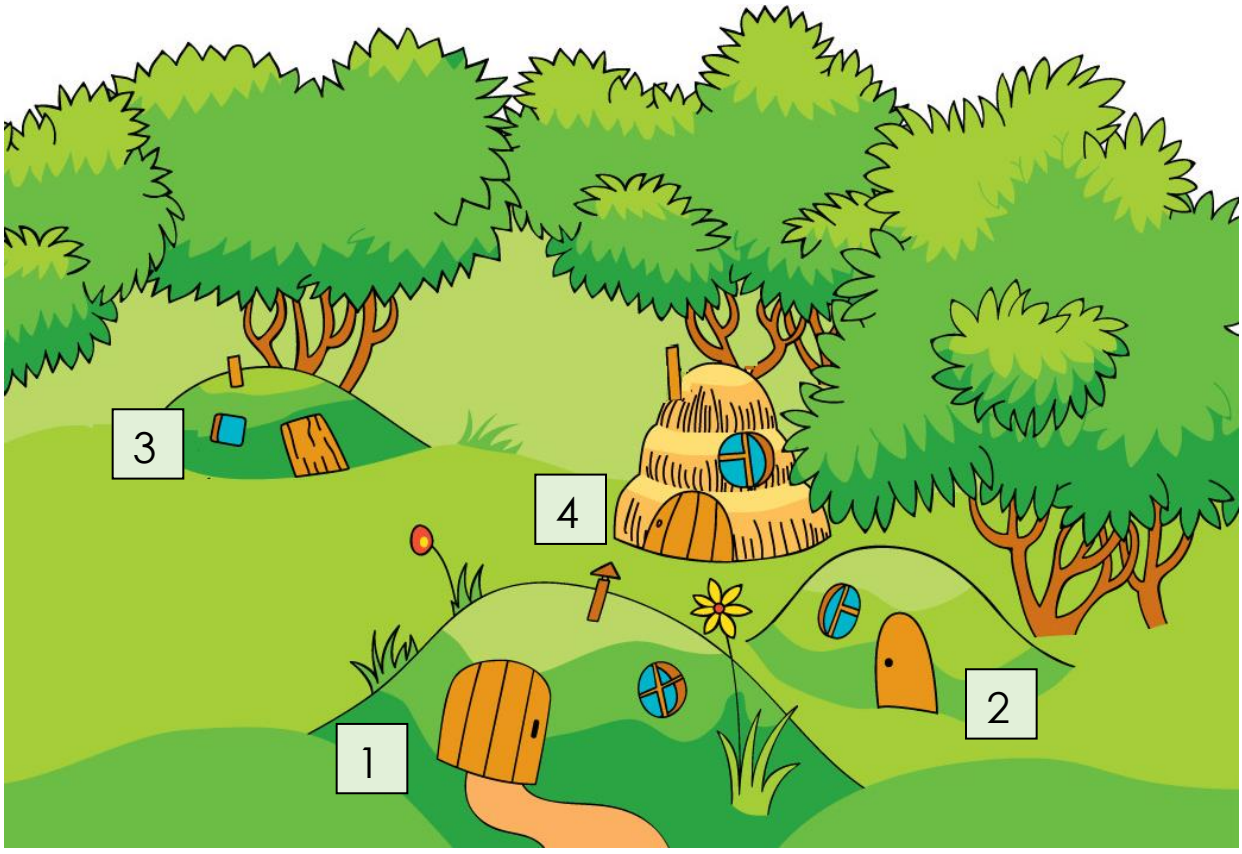
Is this a word problem? What is missing? Which two questions we can ask?

1) _____

2)_____

10 Today we will again play "hide-and-seek" with mice, but you will be “it”. As usual, the mice can hide only in the houses. Can you find each brother if you know that

1) Little Joe is in a house with a round window;
2) There is a chimney in Pop Eye’s house;
3) Foxy Tail’s house is not made from straw and FT does not like flowers;
4) Jake the Mouse‘s and Pop Eye’s houses are made from different materials.



Foxy Tail

Jack the Mouse

Pop Eye

Little Joe

	Little Joe	Pop Eye	Foxy Tail	Jack the Mouse
House 1				
House 2				
House 3				
House 4				