



If lines do NOT intersect, they are called **Parallel** lines. Parallel lines never intersect. In the real world a good example of parallel lines is a railroad.

Give the examples of intersecting lines in real life.

1.

5

- 2.
- 3.

Lesson 5 Intersections of lines. Addition of 2 or 3 digit numbers

a) This line is called \overrightarrow{AB} . It can also be called \overrightarrow{BA} . Line \overrightarrow{BA} is the same as line \overrightarrow{AB} . Arrows show that a line should be continued indefinitely.



b) This is a ray \overrightarrow{AB} . A ray is a part of a line, which starts at a point and goes off in a particular direction to infinity. Is ray \overrightarrow{AB} the same as ray \overrightarrow{BA} ?



c) Does a line have length? What about a ray? Can you give an example of a geometric object, which has a length?

Using your ruler draw: a) Two **line segments**, which intersect at point K.

6

7

b) Two line segments, which do NOT intersect and are not parallel.

c) Two line segments, which are parallel.

Consider a pair of rays \overrightarrow{AB} and \overrightarrow{CD} . Using your ruler draw: a) Two rays which intersect at point M

b) Two rays which do NOT intersect and are not parallel)

c) Two rays which are parallel

a) Using a ruler, extend lines *a* and *b*. Find their intersection points with other lines and label those points by any capital letters you choose. Which lines are parallel to each other?



9

8

REVIEW

100 ones = 10 tens = 1 hundred

2 hundred and 8 tens = 280 3 hundred, 5 tens and 2 ones = _____ 7 hundred, 0 tens and 8 ones = _____ 5 hundred, 9 tens and 0 ones = _____

Adding two-digit or three-digit numbers:

Place one number under the other number so that the tens' place digits and ones' place digits are lined up. Draw a line under the bottom number.

Add the ones' place digits (3 + 5 = 8).

43 + <u>55</u>

10

8

Add the numbers in **the tens' place column** (4 + 5 = 9) and place the answer below the line and to the left of the ones' place sum.

43

- + <u>55</u>
 - 98

When you add three-digit numbers, write the numbers one under another - in the column form, lined up ones under ones, tens under tens and hundreds under hundreds. Start the addition from ones, then add tens (don't forget about regrouping - carrying lover the next higher place value, if the sum of 2 digits is greater that 9)

Calculate:









+

	Lesson 5Intersections of lines. Addition of 2 or 3 digit numbers
12	Calculate:
	44 + 710 = 117 + 72 = 111 + 513 = 678 + 301 =
13	Fill in the missing digits:
	$+\frac{8}{5} + \frac{3}{42} + \frac{38}{98} + \frac{14}{14}$
14	Solve the problems:
	a) Tom had 8 marbles. Then Jerry gave him some more marbles. Now Tom has 17 marbles. How many marbles did Jerry give him?
	Given (what we know):
	Question (what we should find): Solution:
	Answer:_Jerry gave Walter marbles.
	b) There are twelve girls in a class of 25 students. How many boys are in the class?
	Given (what we know):
	Question (what we should find): Solution:
	Answer: boys in the class.