

1. If we reduce a (natural) number by 1, then divide it by 6 and add 3, we will get  $\frac{1}{5}$  of initial number. What was the initial number?
  
2. The distance between two cities is 400.4 km. At the same time a car and a bus started moving toward each other from these cities. The speed of the car is 82.5 km/h, the speed of the bus is  $\frac{11}{15}$  of the speed of the car. Which distance bus will travel before it will meet the car?
  
3. Fill the table:

$a$	0	1	-1	10	-10	0.1	-0.1	$\frac{1}{2}$	$-\frac{1}{2}$
$a^2$									
$a^3$									
$a^4$									

4. Evaluate:

$$\left(1\frac{2}{5} + 3.5 \div 1\frac{1}{4}\right) \div 2\frac{2}{5} + 3.4 \div 2\frac{1}{8} - 0.35 =$$

(Answer is 3) Write your solution.

5. Compute the value of the expressions  $9a^2$ ,  $(9a)^2$ ,  $-9a^2$ ,  $(-9a)^2$  if

a)  $a = \frac{1}{6}$

b)  $a = -0.1$

6. Using ruler and protractor draw

- a. an isosceles right triangle with legs 4 cm long.
- b. A triangle with sides 3 cm and 4 cm long and an angle  $45^\circ$  between them.
- c. A triangle with angles  $30^\circ$  and  $60^\circ$ , and sides 6 cm and 3 cm.