

Math 4a. Homework 3.



1. Do the division, write your answer in a form $a : b = cR(r)$.

Examples:

$$25 : 4 = 6R(1); \quad 28 : 7 = 4R(0)$$

a. $36 : 5$; b. $43 : 4$; c. $75 : 3$; d. $126 : 5$; $81 : 9$;

2. Evaluate the products and name the factors:

Example: $3 \cdot 25 = 75$, 3 and 25 are factors.

a. $4 \cdot 12$; b. $7 \cdot 11$; c. $15 \cdot 20$;

3. The remainder of $1932 \div 17$ is 11, the remainder of $261 \div 17$ is 6. Is

$$2193 = 1932 + 261$$

divisible by 17? Is it possible to say without division?

4. Is the product of 1247 and 999 divisible by 3 (no calculations)?

5. Number a is divisible by 5. Is the product $a \cdot b$ divisible by 5?

6. Fill the missing digits:

$$\begin{array}{r}
 \square\square\square\square\square \\
 9 \overline{) 71\square84\square} \\
 \underline{-\square\square} \\
 \square1 \\
 \underline{-\square\square} \\
 \square\square \\
 \underline{-\square\square} \\
 \square6 \\
 \underline{-\square\square} \\
 \square
 \end{array}$$

7. There are 93 students in the 1st, 2nd and 3rd grades altogether.

The number of students in the 1st and 2nd grades is 62, and in 2nd and 3rd grades is 64. How many students are there in each grade?

8. Fill the empty spaces in the table below:

a	56		36		72
b	8	6		5	
$a \cdot b$		108	144		
$a : b$				14	24

9. Rebecca wants to decorate the box for her friend Alice's birthday present with a ribbon, as shown in the picture. How long should the ribbon be if she wants to leave 90 cm for the ends and the bow?

