INTO MATH
LEARN IT FAST

GRADE 6 - LESSON 4

MULTIPLYING AND DIVIDING BY A TWO-DIGIT NUMBER

4 DIGIT NUMBERS X 2 DIGIT NUMBERS

1245 x 27 vertically

STEPS

- Multiply 7 ones by 1245 and record the result such that the number of ones (5 in this case) are right under the ones of the co-multipliers
- Multiply the tens (in this case 2) and record the result such that the last digit of 2490 is right under the tens of the co-multipliers.
- Add the results to get the final answer:

DIVIDING 3 AND 4 DIGIT NUMBERS BY 2 DIGIT NUMBERS

divide 368 by 23

$$368 \div 23 = (230 + 138) \div 23 = (230 \div 23) + (138 \div 23) = 10 + 6 = 16.$$

STEPS for vertical division

- Divide 36 tens by 23. Quotient is 1. Remainder is 13, which is less than the divisor. It means that part of the final quotient has been found correctly.
- The remainder is 13 tens, which is 130. Bring down 8 and add to 130. Then divide 138 by 23. The result is recorded in the final quotient. The final quotient is 16.

368 - dividend
23 - divisor
16 - quotient

DIVIDING 3 AND 4 DIGIT NUMBERS BY 2 DIGIT NUMBERS

divide 3708 by 36

DIVISIBILITY INDICATORS

- multiples of number k are numbers that could be divided by k with no remainder: multiples of 7 are 14, 35, 70...

Numbers 1, 3, 5, 7, 9... are called ODD NUMBERS

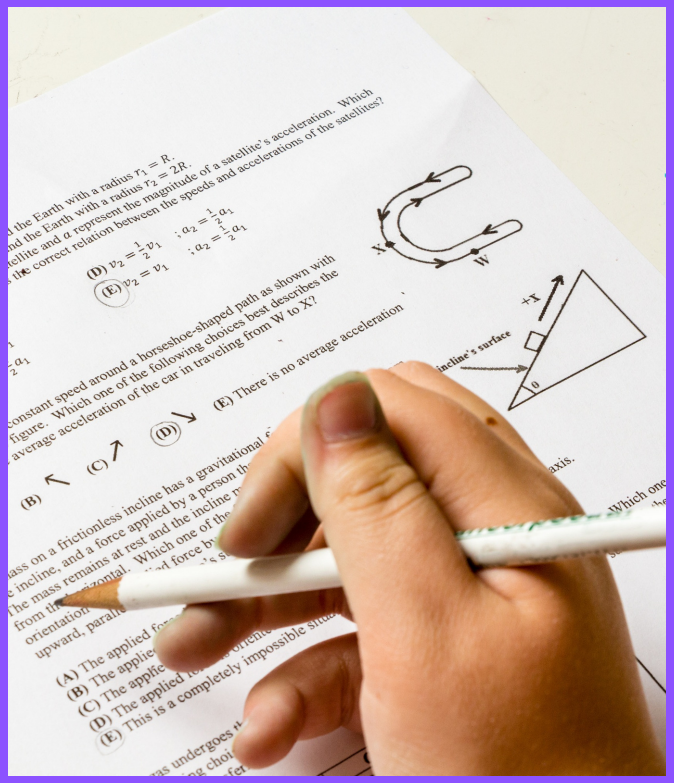
Numbers 2, 4, 6, 8, 10... are called EVEN NUMBERS

Memorize the following divisibility indicators

- If the number ends in 0, then this number is divisible by 10
- If the number ends in 0 or 5, this number is divisible by 5
- If the last digit of the number is even, then the number is divisible by 2
- If the sum of all digits in a number is divisible by 3, then the number is divisible by 3
- If the sum of all digits in a number is divisible by 9, then the number is divisible by 9

INTO MATH

LEARN IT FAST



CONTINUE TO GRADE 6 LESSON 5

YOU ROCK!

With questions, requests or suggestions email us at intomath101@gmail.com

For more resources visit www.intomath.org