

- 1) $10 + 43$ 53
- 2) $47 - 11$ 36
- 3) $\frac{1}{2}$ of 20 10
- 4) $3\ 000 \div 10$ 300
- 5) $25 \div 5$ 5
- 6) 23×10 230
- 7) 30×2 60
- 8) 8×25 200
- 9) $505 \div 5$ 101
- 10) $175 \div 25$ 7



Homework:

do it right or do it over

ATTEMPT EVERY PROBLEM

write neatly

SHOW ALL WORK

NUMBER YOUR WORK

answer the questions that are asked

CIRCLE YOUR ANSWERS

$$1 + 1 + 7 = 9$$

$$2 + 1 + 6 = 9$$

Practice

1. Which numbers are divisible by 3? By 9? How do you know?

- a) 117 b) 215 c) 4125 d) 726 e) 8217

8. Use the digits 0 to 9.

Replace the \square in each number to make a number divisible by 3. Find as many answers as you can.

a) $4\square 6$

b) $1\square 32$

c) $2471\square$

$456 = 15 \checkmark$

$426 = 12 \checkmark$

$486 = 18 \checkmark$

b) $1032 = 6 \checkmark$
 $1332 = 9 \checkmark$
 $1632 = 12 \checkmark$
 $1932 = 15 \checkmark$

$24711 = 15$

$24717 = 21$

$24716 = 18$



 <https://www.quia.com/rr/124815.html>

Connect

We can use divisibility rules to find the factors of a number, such as 100.

Any number is divisible by 1 and itself,

so 1 and 100 are factors of 100.

100 is even, so 100 is divisible by 2.

We know 100 is divisible by 4.

The ones digit is 0, so 100 is divisible by 5 and by 10.

100 is not divisible by 3, 6, 8, or 9.

The factors of 100, from least to greatest, are:

1, 2, 4, 5, 10, 20, 25, 50, 100

$$100 \div 1 = 100$$

$$100 \div 2 = 50$$

$$100 \div 4 = 25$$

$$100 \div 5 = 20$$

$$100 \div 10 = 10$$

Factors occur in pairs.

When we find one factor of a number, we also find a second factor.

A whole number cannot be divided by 0.

We cannot take a given number and share it into zero equal groups.

We cannot make sets of zero from a given number of items.



Example

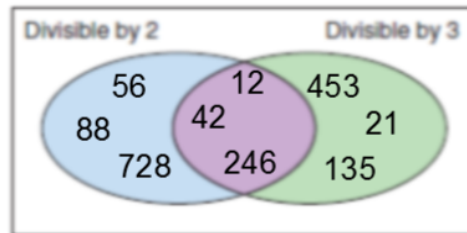
Edward has 16 souvenir miniature hockey sticks.
He wants to share them equally among his cousins.
How many sticks will each cousin get if Edward has:
a) 8 cousins? b) 0 cousins?
Explain your answer to part b.

A Solution

- a) There are 16 sticks. Edward has 8 cousins.
 $16 \div 8 = 2$
Each cousin will get 2 sticks.
- b) There are 16 sticks. Edward has no cousins.
16 sticks cannot be shared equally among no cousins.
This answer means that we cannot divide a number by zero.
We cannot divide 16 by 0 because 16 cannot be shared
into zero equal groups.



Venn Diagram



88 56
 42 135 21
 453
 728
 246

Carroll Diagram:

	divisible by 2	NOT divisible by 2
div by 3	12 42 246	453 21 135
NOT div by 3	56 88 728	

