Sept. 7,8, 9 2016

Row 1				2			
Row 2			2		2		
Row 3		2		4		2	
Row 4	2		6		6		2
Row 5	2	8	12	8	2		
Row 6	2	10	20	20	10	2	
Row 7	?	?	?	?	?	?	?

Unit 1

Patterns & Relations

| 1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

$2x + 3 = 11$
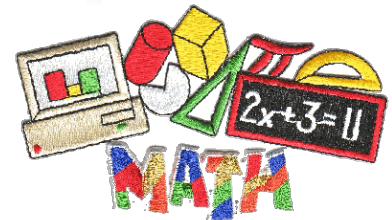
MATH

Each day we will start the same

1) Please have your page ready with the date and numbered 1 - 10 along your margin - like this

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

This will be for mental math.

1. $6 + 6$
2. $38 + 7$
3. $10 - 6$
4. $46 - 8$
5. 8×3
6. 56×10
7. $64 \div 8$
8. $1/2$ of 10
9. 50% of 30
10. $0.5 + 1.0$

KEEP CALM AND LOVE MATH
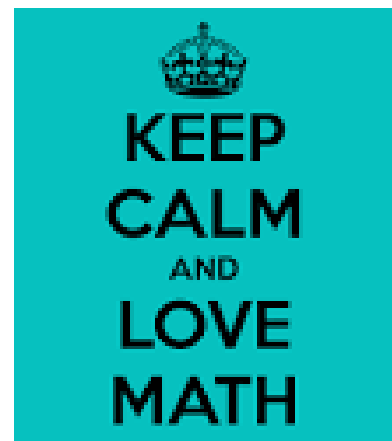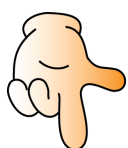
Divisibile

factor

even number

multiple

odd number

sum

divisible - when a number can be divided by another and there is no remainder

divisibility rules - rules that we use to see if a number is divisible by another number.

I'm 2 and I'll be your friend,
as long as an even #'s on the end.

1010

122

4

90

5006

88

The 5 is my biggest hero,
he has to end in 5 or 0.

800000

565

90

25

I'm ☺☺☺ and this you should know,
I always end in a big fat 0!

100

20   7000

102000000

1000

Which of these numbers are divisible by 2? By 5? By 10?
How do you know?

- 78
- 27
- 35
- 410
- 123
- 2100
- 4126
- 795

You already know

Pattern and Divisibility Rules

Divisible by 2 - How do you know if a number is divisible by 2?
It is divisible by 2 if it ends with 2,4,6,8,or 0

Divisible by 5 -
A number is divisible by 5 if it ends with a 5 or a 0.

Divisible by 10 -
A number is divisible by 10 if it ends with a 0.

LOVE
Math!

How to discover the divisibility rule for 4.....

The ▣▢ won't be such a chore,
if the last 2 are divisible by 4.

How to discover the divisibility rule for 8....

8 The last three digits are divisible by 8

➤ 109**816** (816÷8=102) **Yes**

Page 10 of your text book

Explore

You will need a hundred chart numbered 301–400,
and three different coloured markers.

➤ Use a marker. Circle all numbers on
   the hundred chart that are divisible by 2.
   Use a different marker.
   Circle all numbers that are divisible by 4.
   Use a different marker.
   Circle all numbers that are divisible by 8.
   Describe the patterns you see
   in the numbers you circled.
➤ Choose 3 numbers greater than 400.
   Which of your numbers do you think are divisible by 2? By 4? By 8?
   Why do you think so?

You can use patterns to find **divisibility rules** for other numbers.

➤ All multiples of 10, such as 30, 70, and 260, end in 0.

> Any number whose ones digit is 0, is divisible by 10.

➤ Here are some multiples of 5.
5, 10, 15, 20, 25, 30, 35, 40, …, 150, 155, 160, …
The ones digits form a repeating pattern.
The core of the pattern is: 5, 0

> Any number whose ones digit is 0 or 5, is divisible by 5.

➤ Multiples of 2 are even numbers: 2, 4, 6, 8, 10, …
All even numbers are divisible by 2.

> Any number whose ones digit is even, is divisible by 2.

1	2	3	4	5	6	7	8	9	10
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91	92	93	94	95	96	97	98	99	100

Every multiple of 5 has a ones digit of 0 or 5.

A number that is divisible by 8 is also divisible by 2 and by 4
because $8 = 2 \times 4$.
So, a number divisible by 8 is even.

Another way to check if a
number is divisible by 8 is to
divide by 4. If the quotient
is even, then the number is
divisible by 8.