

Year 5: Multiplication and Division (1)

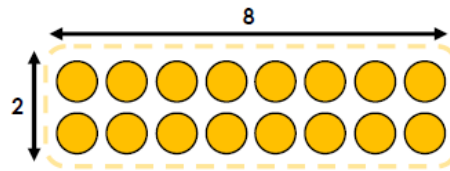
MATHEMATICAL VOCABULARY

prime numbers
 square numbers
 cube numbers
 common factors
 common multiples
 composite number
 squared
 cubed

Don't forget the other vocabulary you already know!



I know that factors are numbers that multiply together to make a product.



$$\boxed{2} \times \boxed{8} = \boxed{16}$$

factor factor product

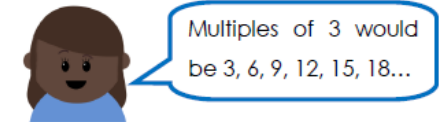
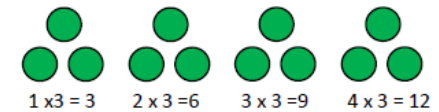
I know that common factors are factors of at least two different products.

Factors of 8	
1	✓
2	✓
4	✓
8	

Factors of 28	
1	✓
2	✓
4	✓
7	
14	
28	

The common factors of 8 and 28 are 1, 2 and 4.

I know that multiples are the product of two numbers multiplied together. They can be seen as extended times tables. I know that common multiples are multiples common to two or more numbers.



I know that a prime number is a number that only has 2 factors - 1 and itself.

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

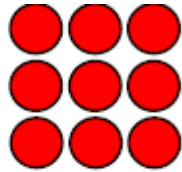
I know that a composite number is a positive integer which is not prime.

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

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I know that a square number is a number that has been multiplied by itself.

$$3^2 = 3 \times 3 = 9$$



$$2^2 = 2 \times 2 = 4$$

$$3^2 = 3 \times 3 = 9$$

$$4^2 = 4 \times 4 = 16$$

$$5^2 = 5 \times 5 = 25$$

I know how to multiply and divide a number by 10, 100 and 1000. I know when to use a place holder when multiplying and dividing by 10, 100 and 1000.

TH	H	T	O
	4	2	3
			0

x10

$$423 \times 10 = 4,230$$

I know that a cube number is a number that has been multiplied by itself then multiplied by itself again.

$$2^3 = 2 \times 2 \times 2 = 8$$

$$3^3 = 3 \times 3 \times 3 = 27$$

$$4^3 = 4 \times 4 \times 4 = 64$$

$$5^3 = 5 \times 5 \times 5 = 125$$

TH	H	T	O	.	t
7	9	0	0		
	7	9	0		
		7	9		
			7	.	9

÷10

÷100

÷1,000

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