The Redeemer C. of E. Primary School



Year 5 Mathematics Core Knowledge Organiser

Place Value Decimals thousands ten thousands ten thousands tens thousands tens thousands tens thousands tens thousands tens tenths 2,184,542.143

Measure Conversions

1 centimetre	10mm			
1 metre	100cm			
1 kilometre	1,000 m			
1 mile	1.6 km			
1 kilometre	0.625 (5/8) mile			
1 kilogram	1,000 grams			
1 litre	1,000 millilitres			

Using known tables facts

Vocabulary

Multiple—the answer to a multiplication

Factor—a number which can divide into
a multiple without leaving a remainder

Common Factor—a number which is a factor of two or more other numbers

Prime Numbers—a number with only 1 pair of factors (1 and itself) 2 = only even prime

Composite Numbers—non-prime numbers

1 is not a prime or composite number

Prime Factor—a factor of a number that is

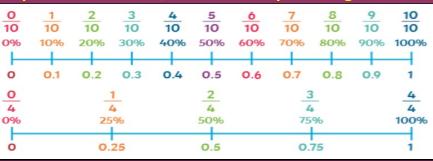
also a prime number $2^2 = 2 \times 2 = 4$

Square number—

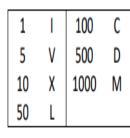
 $3^3 = 3 \times 3 \times 3 = 27$

Cube number -

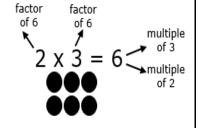
Equivalent fractions, decimals and percentages



Roman Numerals



Multiplication



Addition

787567 + 446278 1233845

Subtraction

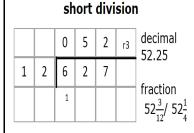
7<u>42</u>831 - 4<mark>27</mark>358

315473

Long Multiplication

		4	3	5	7	
	Х			3	6	
	2	6	1	4	2	(4357 x 6)
1	3	0	7	1	0	(4357 x 30)
1	5	6	8	5	2	

Bus Stop Division



Fractions/decimals

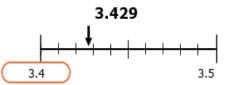
. .

Rounding

Round to the nearest whole number



Round to the nearest tenth



Multiply and Divide

multiplying by 10, 100 and 1000

м ,	HTh	IIIh.	Th /	Н	Т	0	t	h	<u>th</u>
					1	2	4	5	
				1	2	4 (5		
			1 ,	2	4	5			
		1	² /	4	5	0			

dividing by 10, 100 and 1000

М	HTh	IIIh.	Th	Н	Т	0	t	h	<u>th</u>
				4	2	1			
					4	2 ,	1		
						4 ,	2	1	
						0 .	4	2	1

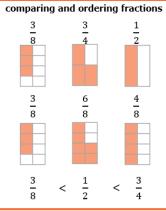
fraction and decimal equivalence

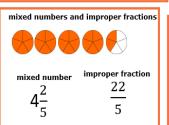
$$\frac{1}{4} = \frac{25}{100} = 0.25$$

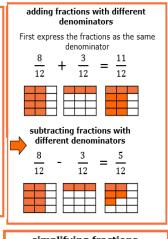
$$\frac{1}{2} = \frac{50}{100} = 0.50$$

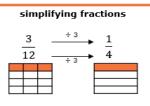
$$\frac{3}{4} = \frac{75}{100} = 0.75$$

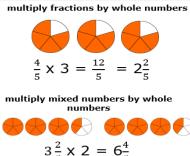














$$\frac{2}{5} \times \frac{2}{1} = \frac{4}{5}$$

$$6 + \frac{4}{5} = 6\frac{4}{5}$$

Multiply the whole numbers
 Multiply the fraction by the whole number
 Add the two answers together

$$6 + \frac{4}{5} = 6\frac{4}{5}$$

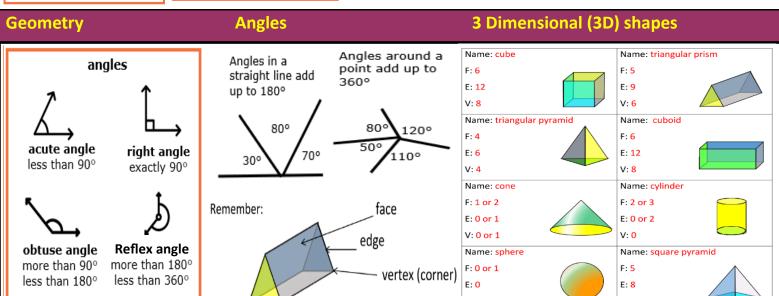
$$\frac{17}{5} \times \frac{2}{1} = \frac{34}{5}$$

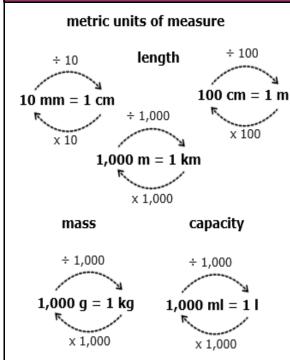
Convert the mixed number to an improper fraction Multiply the improper fraction by the whole number

$$\frac{34}{5} = 6\frac{4}{5}$$

Convert the answer to a mixed number

$\frac{1}{2}$	0.5	50%		
$\frac{1}{4}$	0.25	25%		
<u>1</u> 5	0.2	20%		
<u>2</u> 5	0.4	40%		
3 5	0.6	60%		
<u>4</u> 5	0.8	80%		
3 10	0.3	30%		
7 10	0.7	70%		



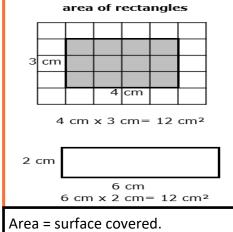


Measurement: conversion

Perimeter and Area

PeRIMeter is the length all the way around the edge of a shape.

Rectangle's perimeter =2length+2width



Rectangle = length x width

Timetables

convert units of time

60 seconds= 1 minute

60 minutes= 1 hour

24 hours = 1 day

7 days = 1 week

12 months = 1 year

365 days = 1 year 366 leap yr.

	Pi Street	Subtraction Way	Times Square	Calculation Street	Total Avenue
Bus 1	11:56	12:01	12:12	12:19	12:25
Bus 2	12:05	12:10	12:21	12:28	12:34
Bus 3	12:20	12:25	12:36	12:43	12:49