

# Year 5 and 6 maths parents workshop



### Aims of the session

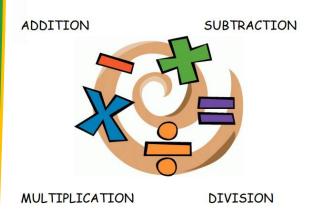
- Overview of Year 5 and 6 maths
- · Go through the methods that are used in Year 5 and 6
- How you can support your child in maths at home



#### Our curriculum

Written Calculation Methods

Middleton Primary School

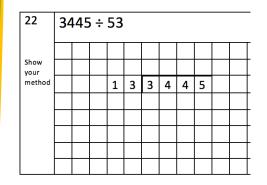


Our curriculum is mapped out and sequenced to ensure that all children cover the national curriculum objectives. We follow our calculation policy and the skills progression document (both of which can be found on the website)



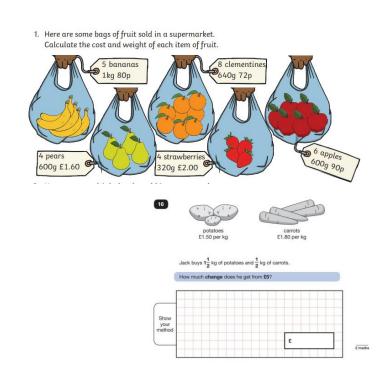
#### Our curriculum

Our curriculum is split into two parts: fluency and reasoning. Throughout all of this, we link our maths back to real-life.











#### Year 6 SATs

Mathem	natics	Mathematics	Mathematics
Paper 1: ar	rithmetic	Paper 2: reasoning	Paper 3: reasoning
First name			First name
Niddle name		First name	Middle name
Last name		Middle rame	Last name
Date of birth D	Day Month Year	List name	Date of birth Day Month Yo
School name		Done of birth Day Month Year	School name
DE number		School name	DIE daufdbier
		SAMPLE BOOKLET Published July 2015 This sarde ant in discrib how the national curricular will be assessed from 2016. Writer information in buildle on COVINC of wewn-ground/sta.	DE number

At the end of KS2 the maths SATs comprise of an arithmetic paper and 2 reasoning papers.

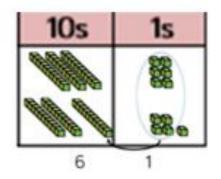
These can test the knowledge of anything from Year 3-6.

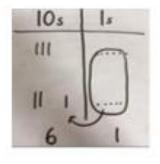
There is a meeting next half term to talk through Year 6 SATs.



#### Addition

Step 5
Understanding why we "carry the one"
Column addition





Use shorter column method

1499

+1123

2622

Step 6
Column addition including decimals
Addition up to 6 digits

1628.9

<u>+ 117,25</u>

1746,15

11



#### Subtraction

Step 5
Using the "borrowing"
method

Step 6
Continue to use this method
Including decimals



# Step 5 Counter method Grid method

## Multiplication

7	24 × 3 = 72		
X	20	4	
3	0000	12	

Abstract

×	30	5	
7	210	35	

$$210 + 35 = 245$$

Х	1000	300	40	2
10	10000	3000	400	20
8	8000	2400	320	16

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# Multiplication

Step 6
Column method
Including decimals

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# Step 5 Bus stop method Up to dividing by 12

#### Division

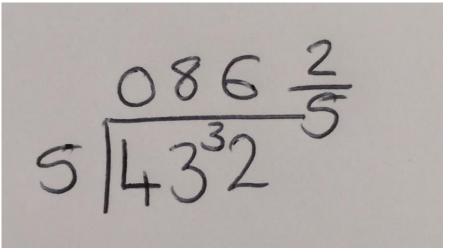
Begin with calculations with no remainders.

Move onto calculations with remainders.



#### Division

Step 6
Bus stop method (up to 12)
Written as a fraction
Decimal
Long division

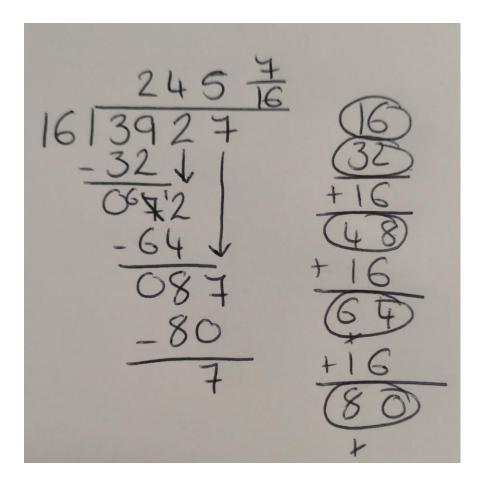


086.4 51432.60



#### Division

Step 6
Bus stop method (up to 12)
Written as a fraction
Decimal
Long division





### BODMAS

#### **Order of Operations**

В	Brackets	10 × (4 + 2) = 10 × 6 = 60
0	Order	$5 + 2^2 = 5 + 4 = 9$
D	Division	10 + 6 ÷ 2 = 10 + 3 = 13
M	Multiplication	10 - 4 × 2 = 10 - 8 = 2
A	Addition	10 × 4 + 7 = 40 + 7 = 47
S	Subtraction	10 ÷ 2 - 3 = 5 - 3 = 2

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Adding and subtracting fractions

$$\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$

$$\frac{2}{12} + \frac{2}{12} = \frac{5}{12}$$

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#### Multiply fractions

$$\frac{2}{3} \times \frac{1}{6} = \frac{2 \times 1}{3 \times 6}$$

$$= \frac{2}{18} = \frac{1}{9}$$



Divide fractions

Keep it, change it, flip it

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

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

$$= \frac{8}{5}$$

$$= \frac{3}{5}$$



#### Mixed and improper fractions



### Percentages

Splitting it

Divide by 100 X by top

$$15\% \text{ of } 120 = 15\% \text{ of } 120$$

$$10\% = 120 \div 10 = 12.$$

$$5\% = 12 \div 2 = 6$$

$$18.$$

$$15\% \text{ of } 120 = 120$$

$$100 \text{ of } 120 = 120$$

$$120 \div 100 \times 15$$

$$12 \times 15 = 18.$$

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# What can I do to support my child?

- Times Tables practice and recall
- Maths in real life
- · Get them to talk you through it

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