@Home with Number

at Swindon Village

NUMBER, PLACE VALUE & FRACTIONS

By the end of Year 3

Nail It

Year 3

Compare and order numbers up to 1000.
Read and write numbers to at least 1000 in numerals and words.
Recognise and write a fraction of a set of objects.
Recognise equivalent fractions from diagrams.
Recognise the place value of each digit in a three-digit number.
Understand a fraction as a number.
Write tenths as a fraction and a decimal.

NUMBER, PLACE VALUE & FRACTIONS

By the end of Year 4

Nail It

Year 4

Add and subtract fractions with the same denominator e.g. 2/4 + 1/4 = 3/4 or 3/5 - 1/5 = 2/5.

Count backwards through zero to include negative numbers e.g. 10 -15 = 5

Recognise and write decimal equivalents to 1/4, 1/2 and 3/4 e.g. 1/4 = 0.25.

Recognise the place value of each digit in a 4-digit number.

Round any number to the nearest 10,100 and 1000.

CALCULATION

By the end of Year 3

Nail It

Year 3

Add and subtract numbers mentally, including three-digit numbers.
Add and subtract numbers with up to three digits, using formal written methods Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
Use a written method to multiply a 2 digit number by a 1 digit number.

CALCULATION

By the end of Year 4

Nail It

Year 4

Add and subtract numbers with up to 4 digits using column method.
Multiply two and three-digit numbers by a one-digit number using a formal written method.
Recall multiplication and division facts for multiplication tables up to 12x12.
Subtract mentally a two-digit number from another two- digit number when no regrouping is required

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What it is:

- **Just DO IT -fluency**
- Regular revisiting of calculation methods
- Number facts
- Building confidence
- Low teacher input
- Pacey
- Interactive
- Fun!

What it is not:

- An extension of the maths lesson
- Reasoning and problem solving

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(30 minutes a day)

Monday	Tuesday	Wednesday	Thursday	Friday
Total Recall (times tables and related division facts)	+/-	x/÷	Year group objectives (HIVE)	Year group objectives (HIVE)

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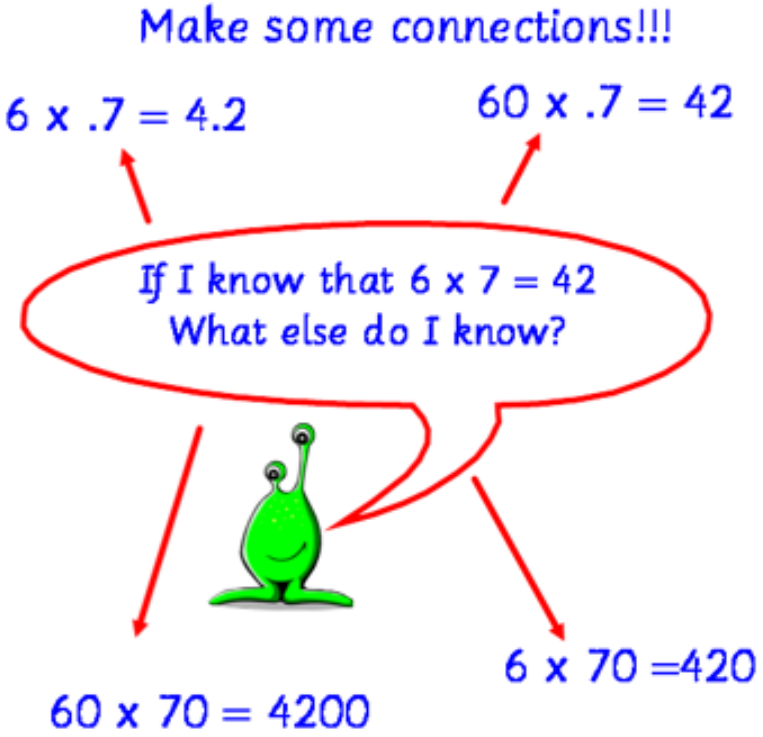
Monday

Total Recall

- Teaching times tables
- 100 club
- Doodle Maths
- Hit the button
- Intelligent Practice
- Repeated addition
- Related division facts



100h Club Name: _____

6.3 + 3 =____	0.6 X 11 =____	9 X 4 =____	4 + 8 =____	Create Test	0.5 X 7 =____
____ + 5 =8	0.3 X 3 =____	8 + 2 =____	4 X 6 =____	24 + 2 =____	____ + 12 =6
3.3 + 11 =____	8 X 3 =____	0.5 X 11 =____	____ + 7 =6	6 X 7 =____	11 X 0.8 =____
0.6 X 3 =____	7 X 3 =____	5.5 + 11 =____	____ + 10 =6	1.2 X 11 =____	6 X 12 =____
7 X 8 =____	____ + 12 =7	8 X 7 =____	5.5 + 5 =____	11 X 12 =____	4 X 3 =____
10 + 10 =____	0.7 X 6 =____	6.6 + 6 =____	12 X 12 =____	1.1 X 8 =____	1 X 7 =____
0.6 X 8 =____	____ + 8 =6	____ + 4 =12	11 X 6 =____	7 X 0.6 =____	8 X 3 =____
8 + 4 =____	1.2 X 6 =____	____ + 3 =10	4 X 0.7 =____	7.2 + 3 =____	____ + 2 =8
4 X 0.3 =____	6 + 2 =____	____ + 8 =3	0.7 X 5 =____	11 X 0.6 =____	____ + 7 =3
____ + 10 =7	11 X 10 =____	____ + 11 =5	7 X 12 =____	88 + 11 =____	20 + 4 =____
____ + 10 =2	8 X 8 =____	4.8 + 6 =____	121 + 11 =____	0.4 X 6 =____	0.8 X 12 =____
0.3 X 3 =____	0.5 X 12 =____	55 + 11 =____	____ + 7 =3	8 X 0.3 =____	12 X 7 =____
8 X 0.6 =____	3 X 0.6 =____	0.5 X 3 =____	14 + 7 =____	21 + 7 =____	____ + 8 =11
3 X 0.8 =____	0.6 X 12 =____	9 X 3 =____	3 X 0.3 =____	8 X 1.2 =____	54 + 9 =____
3 X 3 =____	____ + 2 =4	7 X 0.4 =____	12 + 2 =____	0.8 X 4 =____	45 + 5 =____
108 + 12 =____	9 X 10 =____	____ + 9 =7	3.2 + 4 =____	3.3 + 3 =____	63 + 7 =____
108 + 3 =____	7 X 10 =____	____ + 7 =2	0.4 X 3 =____		

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Monday total recall

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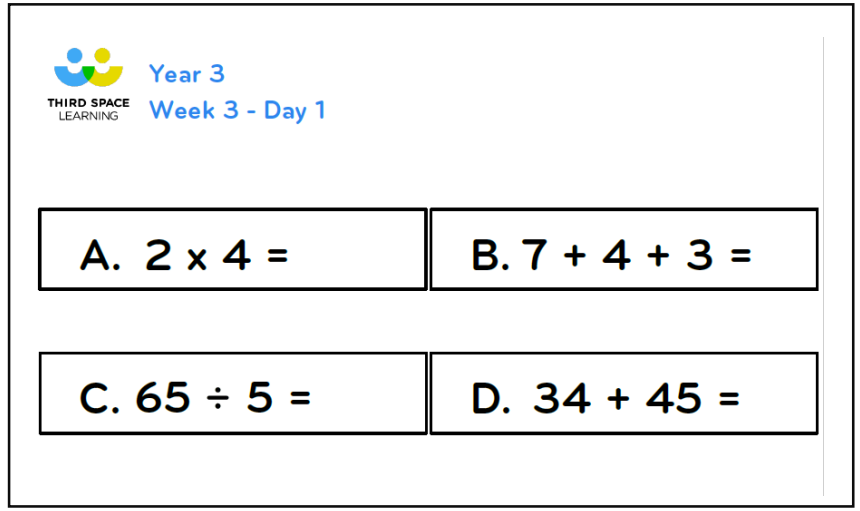
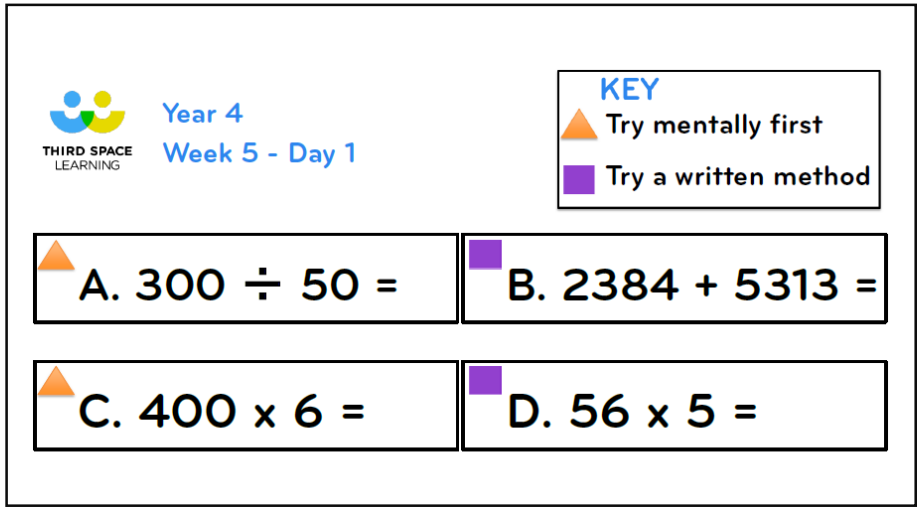
Tuesday

Addition and Subtraction

- Teaching formal method of addition/subtraction
- Missing numbers
- Using manipulatives
- Choose your challenge
- Maths games





@Home with Number Tuesday + & -

12	**34**	**67**	**26**	**18**
25	52	36	89	69
80	99	47	92	71
10	23	74	40	64

Find:

1. A pair of numbers that add to 100
2. Which three numbers add together to make the highest total
3. What is 100 – 8 =
4. Subtract the lowest number from the highest number

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Wednesday

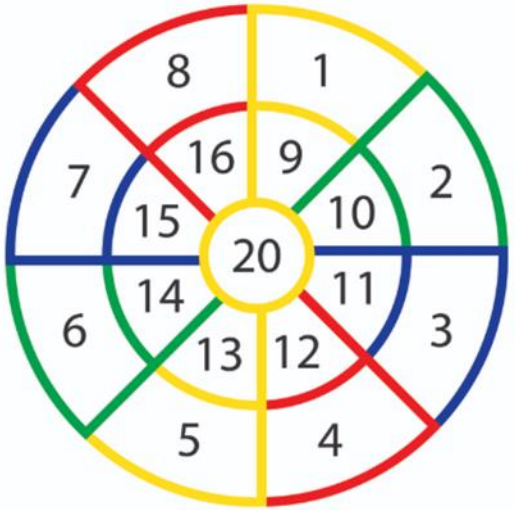
Multiplication and division

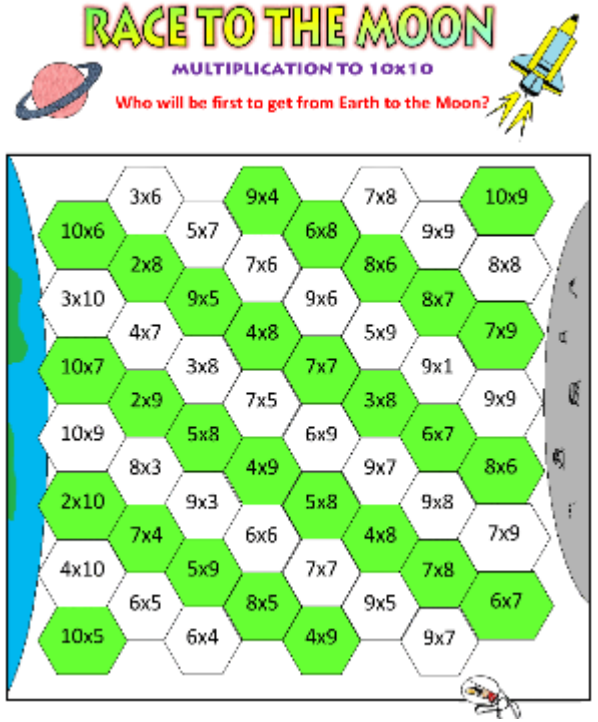
- Teaching formal method of multiplication/division
- Missing numbers
- Using manipulatives
- Choose your challenge
- Maths games

$4 \times 3 = 12$

$6 \times 2 = 12$

$12 + 12 = 24$





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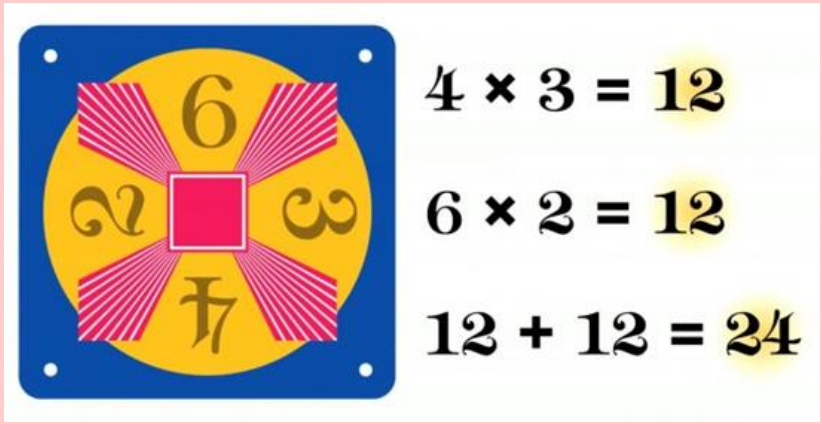
Wednesday x



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Thursday and Friday

- HIVE objectives (current/previous year group)
- Areas of need identified in PUMA/SATs tests
- further extensions- NCETM, nrich

WALT *recall and use multiplication facts from 2, 5 and 10 times tables*

How many ways can you complete these number sentences?

? ÷ 2 = ?

? ÷ 10 = ?

? ÷ 5 = ?

WALT *recall and use multiplication facts from 2, 5 and 10 times tables*

Are there any numbers that can only be used in ONE of the times tables?
Can you predict others that would work?

National Centre for Excellence in the Teaching of Mathematics

nrich
Specialists in rich mathematics

Deepen it

How many different ways can you find to solve the calculation?

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{11}{9}$$

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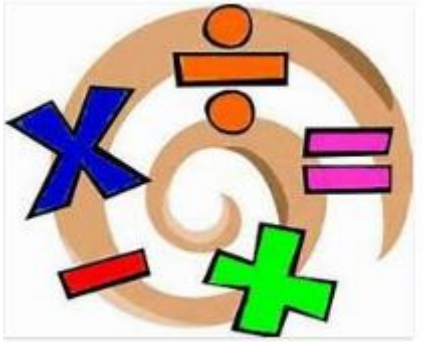
30 minutes a day = 150 minutes per week.

36 weeks a year = 5,400 minutes

ADDITIONAL 90 hours a school year dedicated to core maths skills!



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Feel free to pop into any of the year 3 or 4 classrooms to see @ home with number in action! Please ask us any questions whilst there.

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Supporting key maths at home

- Discuss with your children their current maths learning
- Make connections in daily life e.g. doubling recipes, working out prices for the shopping
- Encourage daily Doodle Maths/ Doodle Tables

Useful websites:

- Hit the Button
- nrich
- Numeracy Ninja
- Transum Mathematics