

**MATHS IN YEAR 6 AT  
BIGGLESWADE ACADEMY**



**BELIEVE, ACHIEVE, TOGETHER**

# TIMES TABLES-FLUENCY AND RECALL

$\times$	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

# Flurrish



BELIEVE, ACHIEVE, TOGETHER

## PAPER ONE ARITHMETIC- 30 MINUTES

### Addition:

- Adding multiples of 100 to a number (bridging the next thousand)
- Adding decimals with the same and different decimal places
- Adding 3 and 4-digit numbers

### Multiplication:

- Doubling 3-digit numbers
- 2-digit x 1-digit
- 2-digit x 2-digit
- 1-digit x 1-digit x 1-digit
- 3-digit x 2-digit number
- Decimals multiplied by 10, 100 or 1,000
- Multiples of 10, 100 or 1,000 x multiples of 10, 100 or 1,000
- Square numbers
- Decimal number x whole number

1	$935 + 100 =$	<input type="text"/>	<input type="checkbox"/> 1 mark
2	$234 \times 2 =$	<input type="text"/>	<input type="checkbox"/> 1 mark
3	$5.6 + 0.2 =$	<input type="text"/>	<input type="checkbox"/> 1 mark
4	$26 \times 3 =$	<input type="text"/>	<input type="checkbox"/> 1 mark
5	$1,025 + 655 =$	<input type="text"/>	<input type="checkbox"/> 1 mark

### Subtraction:

- 3-digit subtract 1-digit number
- Multiple of 10,000 – multiple of 100
- Whole number subtract a decimal (up to 3 decimal places)
- Decimal (to 1 decimal place) – decimal (to 2 decimal places)
- 6-digit number – 5-digit number

### Division:

- 2-digit divided by 1-digit number
- 3 and 4-digit number (multiple of 10 or 100) divided by 1-digit (no remainders)
- Multiples of 10, 100 or 1,000 divided by a number up to 12
- 4-digit number divided by 1-digit number (no remainders)
- 4-digit number divided by a 2-digit number

PAPER ONE ARITHMETIC- 30 MINUTES

1	$935 + 100 =$	<input type="text"/>	<input type="checkbox"/>
2	$234 \times 2 =$	<input type="text"/>	<input type="checkbox"/>
3	$5.6 + 0.2 =$	<input type="text"/>	<input type="checkbox"/>
4	$26 \times 3 =$	<input type="text"/>	<input type="checkbox"/>
5	$1,025 + 655 =$	<input type="text"/>	<input type="checkbox"/>

**Fractions:**

- Adding and subtracting fractions with the same denominator
- Fraction x Fraction
- Fraction divided by a whole number
- Mixed number subtract a fraction (denominator different)
- Whole number x mixed number
- Adding and subtracting fractions with different denominators

**BODMAS:**

- Questions including more than one number operation

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

$$2\frac{1}{3} - \frac{7}{9} =$$

**Percentages:**

- Multiples of 10% of a number
- Multiples of 5% of a number

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

$$\frac{4}{7} \div 5 =$$

$$18 \times 2\frac{1}{4} =$$

$$\frac{2}{6} + \frac{5}{9} =$$

# FRACTION, DECIMAL AND PERCENTAGE EQUIVALENCES

Percentage	Fraction	Decimal
100%	1 (whole)	1
50%	$\frac{1}{2}$	0.5
25%	$\frac{1}{4}$	0.25
10%	$\frac{1}{10}$	0.1
1%	$\frac{1}{100}$	0.01

Knowing these key equivalences helps children in a variety of ways – for example, being able to visualise amounts as tenths when being asked to find 30% quickly on a non-calculator paper, or understanding that a percentage of 75% represents three-quarters of the total amount.

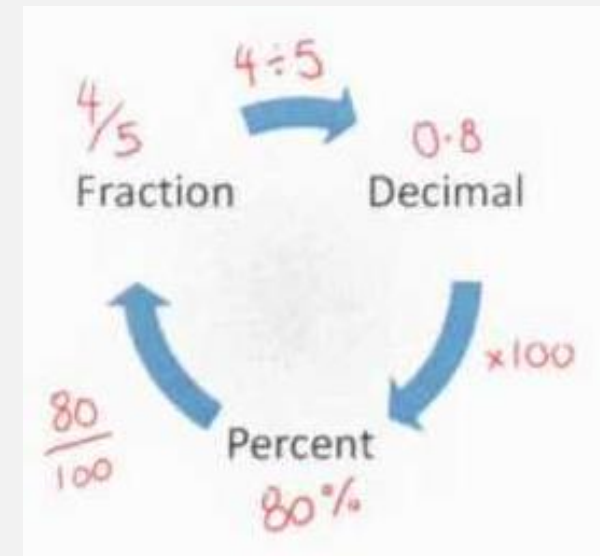
## Visual representations



2/8 of a pizza

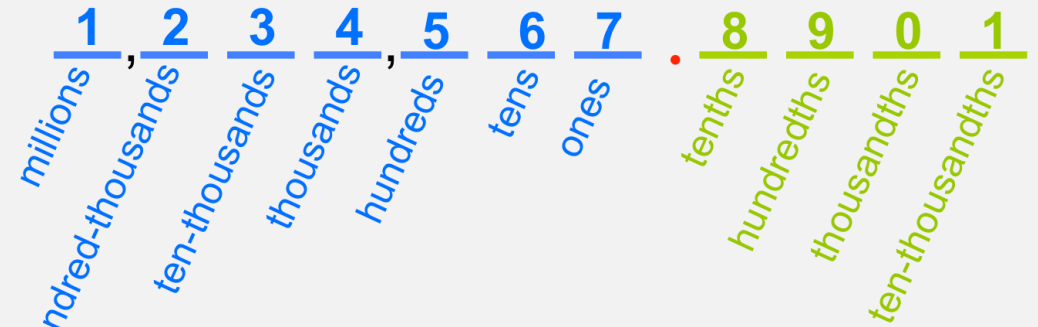


1/4 of a pizza



**BELIEVE, ACHIEVE, TOGETHER**

# PLACE VALUE



## Multiply and Dividing by 10, 100, 1000

10 000	1000	100	10	1	●	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
			7	4	●			
				0	●	7	4	

### MULTIPLYING

- X 10 digits move LEFT 1 space
- X 100 digits move LEFT 2 spaces
- X 1000 digits move LEFT 3 spaces

### DIVIDING

- ÷ 10 digits move RIGHT 1 space
- ÷ 100 digits move RIGHT 2 spaces
- ÷ 1000 digits move RIGHT 3 spaces

Standard form: **7,983,836**

Written form: seven million, nine hundred and eighty-three thousand, eight hundred and thirty-six.

Expanded form:  $7,000,000 + 900,000 + 80,000 + 3,000 + 800 + 30 + 6$



**BELIEVE, ACHIEVE, TOGETHER**