

St Barnabas

Church of England Primary Academy

Year 6 Fluency

Rapid Recall

- Addition and subtraction of multiples of 10 (e.g. 70 + 30= 100, 50 + 60 = 110, 20 + 40 = 60);
- Addition and subtraction of multiples of 100 (e.g. 300 + 400 = 700, 400 + 600 = 1,000, 800 + 500 = 1,300);
- Addition and subtraction of multiples of 1000 (e.g. 3000 + 4000 = 7000);
- Double and halves of multiples of 10 to 100 (e.g. double 60 = 120, half 50 = 25);
- Quadruples (x4) of all numbers to 10 (e.g. 6 x 4 = 24);
- Multiplying two-digit number by 10 (e.g. 24 x 10 = 240);
- Halves of any number up to 100 (e.g. half of 22 = 11, half of 51 = 25.5);
- Multiplying and dividing any number by 10 and 100 (e.g. 24 x 100 = 2,400, 45 ÷ 100 = 0.45, 3.4 x 10 = 34);
- Multiplication of multiples of 10 and 100 based on known facts (e.g. 40 x 40 = 1,600);
- Squares of all number up to 12;
- And cubes of 2,3,4 and 5.

Mental Calculations (Jottings may be needed)

Addition and Subtraction Mental Calculation Skills (Working mentally with jottings)	Methods or Strategies	Multiplication and Division Mental Calculation Skills (Working mentally with jottings)	Methods or Strategies
 Add or subtract a pair of decimals with ones, tenths or hundredths. e.g. 0.7 + 3.36 	- Count on or back in hundreds, tens, ones, tenths and	- Multiply pairs of two-digit and single-digit numbers.	- Use partitioning and distributive law to divide tens and ones

- Find doubles of	hundredths	e.g. 28 x 3	separately.
decimals each with	 Use knowledge 	- Divide a two-digit	e.g. 92 divided by 4 =
ones and tenths	of place value	number by a	(80 + 12) divided by 4 =
e.g. 1.2 + 1.2	and related	single-digit	20 + 3 = 23
- Add near doubles of	calculations	number	- Form equivalent
decimals.	e.g. 4.7 + 5.6, 470 + 560,	e.g. 68 divided by 4.	calculations.
e.g. 1.6 + 1.7	0.56 + 0.47 can be	- Divide by 25 or 50.	e.g. To divide by 25,
 Add or subtract a 	worked out using 47 + 56	e.g. 480 divided by 25,	divide by 100 and
decimal with ones	- Use knowledge	2700 divided by 50	multiply by 4. To divide
and tenths, that is	of place value	- Double decimals	by 50, divide by 100 and
nearly a whole	and doubles of	with ones and	then double.
number.	two-digit whole	tenths and the	- Use knowledge
e.g. 5.2 + 3.6	numbers.	corresponding	of equivalence
- Count on and back in	- Double and	halves.	between
minutes and hours	adjust.	e.g. double 7.6, half of	fractions and
bridging through 60	 Add or subtract 	15.2	percentages
(analogue and digital	a whole number	- Multiply pairs of	and relationship
times, 12 hour, 24 hour	and adjust.	multiples of 10	between
clock)	e.g. 5.2 + 3.6 = 3.6 + 5 +	and 100	fractions and
e.g. mental jottings (time	0.2	e.g. 50 x 30, 700 x 20	division.
number line)		- Divide multiples of	- Recognise how
		100 by a multiple	to scale up or
		of 10 or 100.	down using
		e.g. 800 divided by 400,	multiplication
		600 divided by 20	and division.
		- Multiply and	e.g. If three oranges
		divide two-digit	cost 24p, one orange
		decimals using	costs 24 divided by 3 =
		place value	8. 4 oranges would cost
		knowledge.	8 x 4 = 32p
		e.g. 4.8 divided by 6 (48	- Use
		divided by 6 is 8, then	multiplication
		divide by 10 is 0.8)	and division
		- Find 10% or	facts to identify
		multiples of 10%	factor pairs and
		of whole numbers	numbers with
		and quantities.	only two factors.
		e.g. 40% of £30, 70% of	
		200g	
		- Simplify fractions	
		by cancelling.	
		- Scale up and	
		down using	
		known facts.	
		- Identify numbers	
		with odd and	
		even numbers of	
		factors, and no	

	factor pairs other than one and themselves.	