

Year 5 Autumn 1 KIRFs

Key Instant Recall Facts (KIRFs) are designed to support the development of the mental skills that underpin much of the maths work in school. Instant recall facts help enormously with mental agility within maths lessons.

Your child's KIRF this term is:

Common equivalent fractions

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$$

$$= \frac{3}{6} = \frac{4}{8} \qquad \qquad \frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$$

$$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$$

$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$$

$$\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20}$$

$$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20}$$

$$\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{12}{20}$$

Read and write 5-digit numbers	62,179 sixty two thousand, one hundred and seventy nine
Bonds to 1 to 1dp	0.9 + 0.1 = 1 $0.8 + 0.2 = 1$ $0.7 + 0.3 = 1$ etc
Acute, obtuse, reflex and right angle	Acute Angle Right Angle Obtuse Angle Reflex Angle
Add and subtract two 2-digit numbers	3 5 + 49
Doubles and halves of all 2-digit numbers	Double 24 is 48 Half of 92 is 46
Tests of divisibility 2, 5 and 10	If the number ends 2, 4, 6, 8, or 0, it is divisible by 2 If the number ends in 5 or 0, it is divisible by 5 If the number ends in 0, it is divisible by 10
Convert g to kg and inverse	

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Year 5 Autumn 2 KIRFs

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Your child's KIRF this term is: Bonds to 10 to 1 decimal place

$$0.1 + 9.9 = 10$$
 $0.2 + 9.8 = 10$ $0.3 + 9.7 = 10$ $0.4 + 9.6 = 10$ $0.5 + 9.5 = 10$ $0.6 + 9.4 = 10$

...

$$4.4 + 5.6 = 10$$
 $4.5 + 5.5 = 10$ $4.6 + 5.4 = 10$

$$4.7 + 5.3 = 10$$
 $4.8 + 5.2 = 10$ $4.9 + 5.1 = 10$

Value of each digit in 5-digit numbers	94357 = 90,000 + 4,000 + 300 + 50 + 7						
Octahedron							
Add and subtract two 3 digit numbers	3 5 4 + 4 9 0						
Doubles and halves of all two-digit numbers	Double 45 is 90 Half of 98 is 49						
Tests of divisibility 3, 6 and 9	If the digits add up to 3, 6 or 9, the number is divisible by 3 If the digits add up to 3, 6 or 9 <i>and</i> the number is even, the number is divisible by 6 If the digits add up to 9, the number is divisible by 9						
Compare and add fractions with the same denominator	$\frac{2}{7} + \frac{3}{7} = \frac{5}{7} \qquad \frac{2}{7} < \frac{3}{7}$						
Roman numerals to 1000	1						



Year 5 Spring 1 KIRFs

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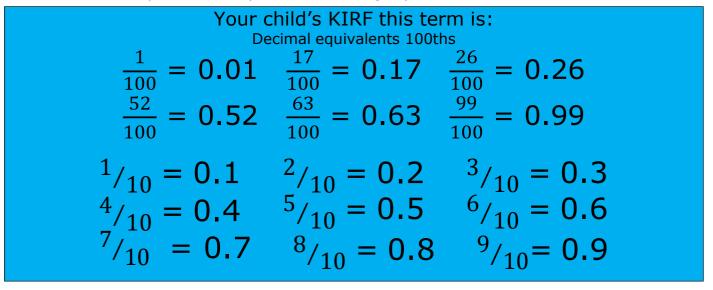
		, men menear agme, mem.		•	•	-			-					
Your child's KIRF this term is: Use knowledge of times tables and place value to multiply whole numbers and tenths														
3x4=12	SO	0.3x4=1.2	x	1	2	3	4	5	6	7	8	9	10	
JAT-12	30	0.574-1.2	1	1	2	3	4	5	6	7	8	9	10	
			3	2	6	6	8	10	12	14	16	18	30	
5x6=30	SO	5x0.6=3.0	4	4	8	12	16	20	24	28	32	36	40	
			5	5	10	15	20	25	30	35	40	45	50	
7.0.56		07056	6	6	12	18	24	30	36	42	48	54	60	
7x8=56	SO	0.7x8=5.6	7	7	14	21	28	35	42	49	56	63	70	
			8	8	16	-	32	40	48	56	64	72	80	
10 10 111		12 12 14 4	9	9	18	27	36	45	54	63	72	81	90	
12x12=144	SO	12x1.2=14.4	10	10	20	30	40	50	60	70	80	90	100	

Value of each digit in 5 digit numbers to 1 decimal place	1674.6 1000 + 600 + 70 + 4 + 0.6					
Rounding	1674.6	Nearest thousand 2000 Nearest hundred 1700 Nearest ten 1670 Nearest whole number 1675				
Bonds to 1 to 2 decimal places	0.64 + 0.36 = 1 $0.45 + 0.55 = 1$					
Regular and irregular polygons						
Add and subtract two 4-digit numbers		7 4 3547 + 4904				
Doubles and halves of all multiples of 10 to 1000	Double 620 is 1,240 Half of 940 is 470					
Prime numbers up to 19	2, 3	3, 5, 7, 11, 13, 17, 19				
Convert ml to I and inverse	÷ 1,000	1l = 1000ml 1.25l = 1250ml				



Year 5 Spring 2 KIRFs

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Value of each digit in 5 digit numbers 2dp	674.61	600 + 70 + 4 + 0.6 + 0.01				
Rounding	674.61	Nearest thousand Nearest hundred Nearest ten Nearest whole number Nearest tenth	1000 700 670 675 674.6			
Bonds to 10 to 2 decimal places	1.3	37 + 8.63 = 10 6.24 + 3.76	= 10			
Lines of symmetry	1 line of sym	of sym 5 lines of sym	4 lines of sym			
Add and subtract two 4-digit numbers 1 decimal place	3 5 4 . + 4 9 0 .	 				
Doubles and halves of all multiples of 10 to 1000	Do	uble 250 is 500 Half of 320 is	s 160			
Multiply and divide by 10 100 and 1000	10 000 1000 100 10	X 100 digits move LEFT 2 spaces ÷	DIVIDING 10 digits move RIGHT 1 space 100 digits move RIGHT 2 spaces 1000 digits move RIGHT 3 spaces al			
Convert between mm cm and m	+ 1,000 + 100 + 100 + 100 MM cm m × 100 × 100	0.01m = 1cm = 10 1m = 100cm = 100 1.275m = 127.5cm = 1	00mm			

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Year 5 Summer 1 KIRFs

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Your child's KIRF this term is:

Percentage and decimal equivalents of halves, quarters and tenths

$$\frac{1}{2} = 50\% = 0.5$$

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

$$^{2}/_{10} = 20\% = 0.2$$

$$\frac{4}{10} = 40\% = 0.4$$

$$^{6}/_{10} = 60\% = 0.6$$

$$\frac{8}{10} = 80\% = 0.8$$

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

$$^{1}/_{10} = 10\% = 0.1$$

$$\frac{3}{10} = 30\% = 0.3$$

$$\frac{5}{10} = 50\% = 0.5$$

$$^{7}/_{10} = 70\% = 0.7$$

$$9/_{10} = 90\% = 0.9$$

Value of each digit in 5-digit numbers 3dp	64.825 = 60 + 4 + 0.8 + 0.02 + 0.005
Bonds to 1 to 3 decimal places	0.333 + 0.667 = 1 $0.247 + 0.753 = 1$
Angles in a triangle	180°
Add and subtract two 4-digit numbers 2 decimal places	3 5 . 4 7 + 4 9 . 0 4
Doubles and halves of all multiples of 100 to 10,000	Double 4,200 is 8,400 Half of 6,400 is 3,200
Recognise factor pairs for numbers up to 100	35 = 1x35 = 5x7 36 = 36x1 = 18x2 = 12x3 = 9x4 = 6x6 (odd number of factors so square) 37 = 1x37 (two factors so prime)
Convert between m and km	1000m = 1km m km 3486m = 3.486km 45km = 45000m

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$$\frac{1}{5} = 20\% = 0.2$$
 $\frac{2}{5} = 40\% = 0.4$ etc.

$$\frac{1}{20} = 5\% = 0.05$$
 $\frac{2}{20} = 10\% = 0.1$ etc.

$$\frac{1}{25} = 4\% = 0.04$$
 $\frac{2}{25} = 8\% = 0.08$ etc.

Bonds to 100 to 2dp	12.37 + 87.63 = 100
Angles in a quadrilateral	360° 80° 90°
Add and subtract two 4-digit numbers different decimal places	3 . 5 4 7
Doubles and halves of all multiples of 100 to 10,000	Double 6,000 is 12,000 Half of 10,000 is 5,000
Square numbers to 12x12 and their roots	$1 \times 1 = 1^{2} = 1 \sqrt{1} = 1 2 \times 2 = 2^{2} = 4 \sqrt{4} = 2$ $3 \times 3 = 3^{2} = 9 \sqrt{9} = 3 4 \times 4 = 4^{2} = 16 \sqrt{16} = 4$ $5 \times 5 = 5^{2} = 25 \sqrt{25} = 5 6 \times 6 = 6^{2} = 36 \sqrt{36} = 6$ $7 \times 7 = 7^{2} = 49 \sqrt{49} = 7 8 \times 8 = 8^{2} = 64 \sqrt{64} = 8$ $9 \times 9 = 9^{2} = 81 \sqrt{81} = 9 10 \times 10 = 10^{2} = 100 \sqrt{100} = 10$ $11 \times 11 = 11^{2} = 121 \sqrt{121} = 11 12 \times 12 = 12^{2} = 144 \sqrt{144} = 12$
Convert between miles and km	5 miles = 8 km 10 miles = 16 km
	Kilometres