



Year 3 Autumn 1 KIRFs

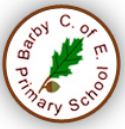
Key Instant Recall Facts (KIRFs) are designed to support the development of the mental skills that underpin much of the maths work in school. Instant recall facts help enormously with mental agility within maths lessons.

KIRF this term is: 4 x table and related division facts

$1 \times 4 = 4$ $2 \times 4 = 8$ $3 \times 4 = 12$ $4 \times 4 = 16$ $5 \times 4 = 20$ $6 \times 4 = 24$ $7 \times 4 = 28$ $8 \times 4 = 32$ $9 \times 4 = 36$ $10 \times 4 = 40$ $11 \times 4 = 44$ $12 \times 4 = 48$		$4 \div 4 = 1$ $8 \div 4 = 2$ $12 \div 4 = 3$ $16 \div 4 = 4$ $20 \div 4 = 5$ $24 \div 4 = 6$ $28 \div 4 = 7$ $32 \div 4 = 8$ $36 \div 4 = 9$ $40 \div 4 = 10$ $44 \div 4 = 11$ $48 \div 4 = 12$
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In addition you can help by practising the following:

Read and write 3-digit numbers	$= 434$ Four hundred and thirty four
Number bonds to 100 in multiples of 10	$10 + 90 = 100$ $30 + 70 = 100$ $50 + 50 = 100$
Quadrilateral	
Addition and subtraction facts for multiples of 100 to 1000	$100 + 300 = 400$ $500 + 200 = 700$ $600 - 100 = 500$
Double all numbers to 20 and inverse	Double 20 is 40, Half of 26 is 13
Count in $\frac{1}{2}$ past 1	$\frac{1}{2}, 1, 1\frac{1}{2}, 2, 2\frac{1}{2}, 3...$
Counting money up to £1	 <div style="text-align: right;">88p</div>

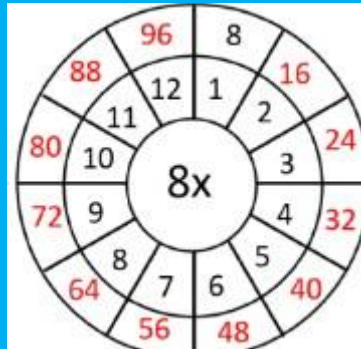


Year 3 Autumn 2 KIRFs

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.





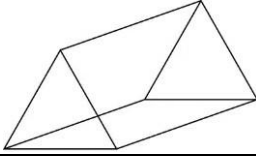

KIRF this term is: 8x table and related division facts

$$\begin{aligned}
 1 \times 8 &= 8 \\
 2 \times 8 &= 16 \\
 3 \times 8 &= 24 \\
 4 \times 8 &= 32 \\
 5 \times 8 &= 40 \\
 6 \times 8 &= 48 \\
 7 \times 8 &= 56 \\
 8 \times 8 &= 64 \\
 9 \times 8 &= 72 \\
 10 \times 8 &= 80 \\
 11 \times 8 &= 88 \\
 12 \times 8 &= 96
 \end{aligned}$$



$$\begin{aligned}
 8 \div 8 &= 1 \\
 16 \div 8 &= 2 \\
 24 \div 8 &= 3 \\
 32 \div 8 &= 4 \\
 40 \div 8 &= 5 \\
 48 \div 8 &= 6 \\
 56 \div 8 &= 7 \\
 64 \div 8 &= 8 \\
 72 \div 8 &= 9 \\
 80 \div 8 &= 10 \\
 88 \div 8 &= 11 \\
 96 \div 8 &= 12
 \end{aligned}$$

In addition you can help by practising the following:

Value of each digit in 3-digit numbers	654 6 is worth 600 5 is worth 50 4 is worth 4
All number bonds to 100	$11 + 89 = 100$ $32 + 68 = 100$ $53 + 47 = 100$
Hemisphere Triangular prism	    
Addition and subtraction facts for multiples of 5 to 100	$15 + 35 = 50$ $50 + 25 = 75$ $65 - 10 = 55$
Double all numbers to 50 and inverse	Double 20 is 40, Half of 26 is 13
Count in $\frac{1}{4}$ past 1	$\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2, $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$, 3...
Counting money past £1	 176p

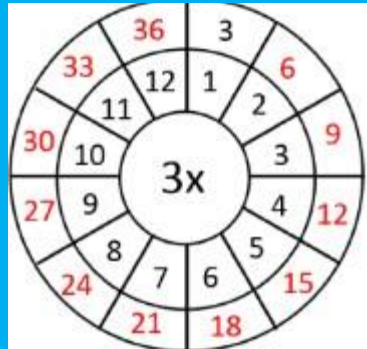


Year 3 Spring 1 KIRFs

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.

KIRF this term is: 3x table and related division facts

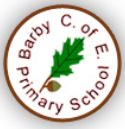
- $1 \times 3 = 3$
- $2 \times 3 = 6$
- $3 \times 3 = 9$
- $4 \times 3 = 12$
- $5 \times 3 = 15$
- $6 \times 3 = 18$
- $7 \times 3 = 21$
- $8 \times 3 = 24$
- $9 \times 3 = 27$
- $10 \times 3 = 30$
- $11 \times 3 = 33$
- $12 \times 3 = 36$



- $3 \div 3 = 1$
- $6 \div 3 = 2$
- $9 \div 3 = 3$
- $12 \div 3 = 4$
- $15 \div 3 = 5$
- $18 \div 3 = 6$
- $21 \div 3 = 7$
- $24 \div 3 = 8$
- $27 \div 3 = 9$
- $30 \div 3 = 10$
- $33 \div 3 = 11$
- $36 \div 3 = 12$

In addition you can help by practising the following:

Find 10 more / less than a 3-digit number	10 less is 294	304	10 more is 314
Number bonds to 100	$28 + \square = 100$		
Parallel Perpendicular			
Addition and subtraction facts for number pairs with a total of 100	$34 + 66 = 100$ $100 - 66 = 34$ $100 - 34 = 66$	$23 + 77 = 100$ $100 - 77 = 23$ $100 - 23 = 77$	$98 + 2 = 100$ $100 - 2 = 98$ $100 - 98 = 2$
Double multiples of 10 to 500	Double 50 is 100, double 120 is 240		
3 quarters and 2 thirds			
Change from £1	<p>Costs 34p Pay £1 Change is 66p</p>		



Year 3 Spring 2 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.

KIRF this term is:

Number bonds to 100

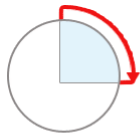
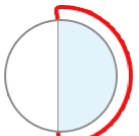

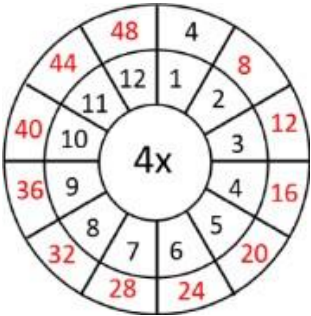
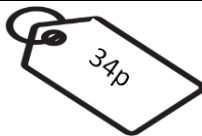
$$1+99 = 100 \quad 2+98 = 100$$

$$3+97 = 100 \quad \dots \quad 48+52 = 100$$

$$49+51 = 100 \quad 50+50=100$$

Please learn these facts with their inverses e.g. $100-7 = 93$ and commutative pairs e.g. $8+92$ is the same as $92+8$

In addition you can help by practising the following:

Find 100 more / less than a 3-digit number	100 less is 204	304	100 more is 404			
How many right angles in $\frac{1}{4}$ $\frac{1}{2}$ and $\frac{3}{4}$ turn						
	1 right angle quarter turn	2 right angles 2 quarter turns or half turn	3 right angles 3 quarter turns			
Add and subtract mentally 3-digit and 1s	$456 - 4 = 452 \quad 617 + 5 = 622$					
Halve multiples of 10 to 500	Half of 500 is 250 Half of 350 is 175 Half of 170 is 85					
4 x table and related division facts						
Count in tenths past 1	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$
Change from £1					Costs 34p Pay £1 Change is 66p	




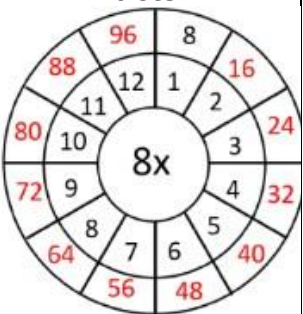
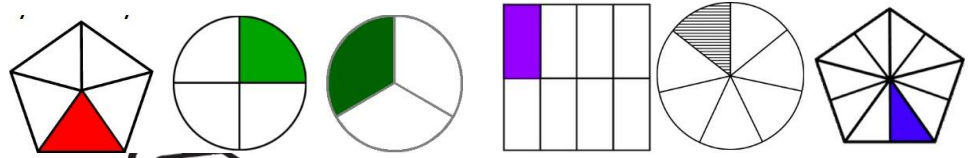
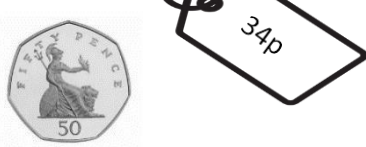
Year 3 Summer 1 KIRFs

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.

KIRF this term is:

$20+30=50$	$20+40=60$	$20+50=70$
$20+60=80$	$20+70=90$	$30+40=70$
$30+50=80$	$30+60=90$	$40+50=90$

In addition you can help by practising the following:

Count in 100s	100, 200, 300, 400, 500, 600, 700 etc.																								
Horizontal and vertical lines																									
Add and subtract mentally 3 digit numbers and 10s	$456 - 40 = 416$ $617 + 50 = 667$																								
Double multiples of 100 to 5000	Double 700 is 1400 Double 800 is 1600																								
8 x table and related division facts 	<table border="0"> <tr> <td>$1 \times 8 = 8$</td> <td>$2 \times 8 = 16$</td> <td>$3 \times 8 = 24$</td> <td>$4 \times 8 = 32$</td> </tr> <tr> <td>$5 \times 8 = 40$</td> <td>$6 \times 8 = 48$</td> <td>$7 \times 8 = 56$</td> <td>$8 \times 8 = 64$</td> </tr> <tr> <td>$9 \times 8 = 72$</td> <td>$10 \times 8 = 80$</td> <td>$11 \times 8 = 88$</td> <td>$12 \times 8 = 96$</td> </tr> <tr> <td>$8 \div 8 = 1$</td> <td>$16 \div 8 = 2$</td> <td>$24 \div 8 = 3$</td> <td>$32 \div 8 = 4$</td> </tr> <tr> <td>$40 \div 8 = 5$</td> <td>$48 \div 8 = 6$</td> <td>$56 \div 8 = 7$</td> <td>$64 \div 8 = 8$</td> </tr> <tr> <td>$72 \div 8 = 9$</td> <td>$80 \div 8 = 10$</td> <td>$88 \div 8 = 11$</td> <td>$96 \div 8 = 12$</td> </tr> </table>	$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$	$4 \times 8 = 32$	$5 \times 8 = 40$	$6 \times 8 = 48$	$7 \times 8 = 56$	$8 \times 8 = 64$	$9 \times 8 = 72$	$10 \times 8 = 80$	$11 \times 8 = 88$	$12 \times 8 = 96$	$8 \div 8 = 1$	$16 \div 8 = 2$	$24 \div 8 = 3$	$32 \div 8 = 4$	$40 \div 8 = 5$	$48 \div 8 = 6$	$56 \div 8 = 7$	$64 \div 8 = 8$	$72 \div 8 = 9$	$80 \div 8 = 10$	$88 \div 8 = 11$	$96 \div 8 = 12$
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Recognise unit fractions small denominator																									
Change from 50p	 Costs 34p change is 16p																								



Year 3 Summer 2 KIRFs

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KIRF this term is: Number bonds to multiples of 10

$$1+89=90 \quad 2+88=90 \text{ etc.}$$

$$1+79=80 \quad 2+78=80 \text{ etc.}$$

$$1+69=70 \quad 2+68=70 \text{ etc.}$$

$$1+59=60 \quad 2+58=60 \text{ etc.}$$

$$1+49=50 \quad 2+48=50 \text{ etc.}$$

$$1+39=40 \quad 2+38=40 \text{ etc.}$$

$$1+29=30 \quad 2+28=30 \text{ etc.}$$

In addition you can help by practising the following:

Acute and obtuse angles	
Count in 50s	50, 100, 150, 200, 250, 300, 350 ...
Add and subtract mentally 3 digit and 100s	469 - 200 = 269 624 + 300 = 924
Halve multiples of 100 to 5000	Half of 500 is 250 Half of 600 is 300
3 x table and related division facts	
Recognise non unit fractions small denominator	
Change from other multiple of 10 up to £1	Cost 54p, paid 60p so 6p change Cost 72p, paid 90p so 18p change