## 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.


In addition you can help by practising the following:

| Read and write 5-digit numbers | $62,179$ <br> sixty two thousand, one hundred and seventy nine |
| :---: | :---: |
| Bonds to 1 to 1 dp | $0.9+0.1=1 \quad 0.8+0.2=1 \quad 0.7+0.3=1$ etc |
| Acute, obtuse, reflex and right angle |  |
| Add and subtract two 2-digit numbers |  3 5  <br> + 4 9  <br>    $35+49$ |
| 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 |  |

## Year 5 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.

Your child's KIRF this term is:
Bonds to 10 to 1 decimal place
$0.1+9.9=10$
$0.2+9.8=10$
$0.3+9.7=10$
$0.4+9.6=10$
$0.5+9.5=10$
$0.6+9.4=10$
$4.4+5.6=10$
$4.5+5.5=10$
$4.6+5.4=10$
$4.7+5.3=10$
$4.8+5.2=10$
$4.9+5.1=10$

In addition you can help by practising the following:


## Year 5 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.
Your child's KIRF this term is: Use knowledge of times tables and place value to multiply whole numbers and tenths

$$
\begin{array}{ccc}
3 \times 4=12 & \text { so } & 0.3 \times 4=1.2 \\
5 \times 6=30 & \text { so } & 5 \times 0.6=3.0 \\
7 \times 8=56 & \text { so } & 0.7 \times 8=5.6 \\
12 \times 12=144 & \text { so } & 12 \times 1.2=14.4
\end{array}
$$



In addition you can help by practising the following:


## Year 5 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.

$$
\left. \frac{99}{100}=0.99\right\}
$$

In addition you can help by practising the following:


## Year 5 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.

$$
\begin{aligned}
& \text { Your child's KIRF this term is: } \\
& \text { Percentage and decimal equivalents of halves, quarters and tenths } \\
& 1 / 2=50 \%=0.5 \\
& 1 / 4=25 \%=0.25 \\
& 3 / 4=75 \%=0.75 \\
& 1 / 10=10 \%=0.1 \\
& 2 / 10=20 \%=0.2 \\
& 3 / 10=30 \%=0.3 \\
& 4 / 10=40 \%=0.4 \quad 5 / 10=50 \%=0.5 \\
& 6 / 10=60 \%=0.6 \quad 7 / 10=70 \%=0.7 \\
& 8 / 10=80 \%=0.8 \quad 9 / 10=90 \%=0.9
\end{aligned}
$$

In addition you can help by practising the following:


## Year 5 Summer 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.

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In addition you can help by practising the following:

| Bonds to 100 to 2dp | $12.37+87.63=100$ |
| :---: | :---: |
| Angles in a quadrilateral | $\int_{80^{\circ}} 360^{\circ}{ }^{900}$ |
| Add and subtract two 4-digit numbers different decimal places |   3 . 5 4 7 <br> + 4 9 . 0 4  <br>    .   $3.547+49.04$ |
| 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 $12 \times 12$ and their roots | $\begin{array}{cccl} 1 \times 1=1^{2}=1 & \sqrt{ } 1=1 & 2 \times 2=2^{2}=4 & \sqrt{ } 4=2 \\ 3 \times 3=3^{2}=9 & \sqrt{ } 9=3 & 4 \times 4=4^{2}=16 & \sqrt{ } 16=4 \\ 5 \times 5=5^{2}=25 & \sqrt{ } 25=5 & 6 \times 6=6^{2}=36 & \sqrt{ } 36=6 \\ 7 \times 7=7^{2}=49 & \sqrt{ } 49=7 & 8 \times 8=8^{2}=64 & \sqrt{ } 64=8 \\ 9 \times 9=9^{2}=81 & \sqrt{ } 81=9 & 10 \times 10=10^{2}=100 & \sqrt{ } 100=10 \\ 11 \times 11=11^{2}=121 \quad \sqrt{ } 121=11 & 12 \times 12=12^{2}=144 \quad \sqrt{ } 144=12 \end{array}$ |
| Convert between miles and km |  <br> 5 miles $=8 \mathrm{~km}$ <br> 10 miles $=16 \mathrm{~km}$ |

