Key Instant Recall Facts Year 5 and 6- Summer 1

KIRFS stand for Key Instant Recall Facts
By the end of this half term children should know the following facts. The aim is for them to recall these facts instantly.
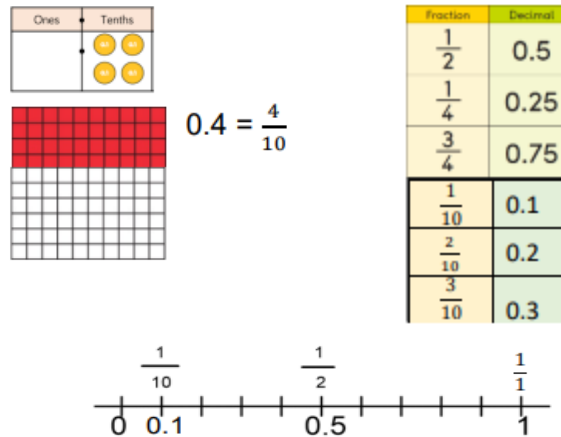
Year 5
Recall square numbers up to 12^2 and their square roots

Year 6
Recall the decimal fraction equivalents.

Fraction	Decimal
$\frac{1}{2}$	0.5
$\frac{1}{4}$	0.25
$\frac{3}{4}$	0.75
$\frac{1}{10}$	0.1
$\frac{2}{10}$	0.2
$\frac{3}{10}$	0.3

$1^2 = 1 \times 1 = 1$ $\quad$ $1 = 1$
$2^2 = 2 \times 2 = 4$ $\quad$ $4 = 2$
$3^2 = 3 \times 3 = 9$ $\quad$ $9 = 3$
$4^2 = 4 \times 4 = 16$ $\quad$ $16 = 4$
$5^2 = 5 \times 5 = 25$ $\quad$ $25 = 5$
$6^2 = 6 \times 6 = 36$ $\quad$ $36 = 6$
$7^2 = 7 \times 7 = 49$ $\quad$ $49 = 7$
$8^2 = 8 \times 8 = 64$ $\quad$ $64 = 8$
$9^2 = 9 \times 9 = 81$ $\quad$ $81 = 9$
$10^2 = 10 \times 10 = 100$ $\quad$ $100 = 10$
$11^2 = 11 \times 11 = 121$ $\quad$ $121 = 11$
$12^2 = 12 \times 12 = 144$ $\quad$ $144 = 12$

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

Key vocabulary:
What is 8 **squared**?
What is 7 **multiplied** by itself?
What is the **square root** of 144?
Is 81 a **square number**?

Key vocabulary:
How many **tenths** is 0.8?
How many **hundredths** is 0.12?
Write 0.75 as a **fraction**?
Write 1 4 as **a decimal**?

Top tips on how to help at home:
The secret to success is practicing little and often. Can you practise these KIRFs while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day. If you would like more ideas, please visit google classroom or speak to your child's teacher.

Cycling Squares – At http://nrich.maths.org/1151 there is a challenge involving square numbers. Can you complete the challenge and then create your own examples?

Use memory tricks – For those hard-to-remember facts, www.multiplication.com has some strange picture stories to help children remember.

Dominos- write the fraction and decimal the domino is showing
Bingo- make your own fraction to decimal bingo game
Pairs game- make your own fraction and decimal card matching game Websites:
https://www.mathplayground.com/ASB_Puppy_Chase_Decimals.html
https://www.transum.org/software/SW/Starter_of_the_day/Students/Pairs.asp?Topic=15
https://mrnussbaum.com/death-to-decimals-and-the-adventures-of-fraction-man-onlinegame
https://whiterosemaths.com/homelearning/year-5/spring-week-10-number-decimals-andpercentages/