Stage 6

We are learning to:

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We are learning:

Knowledge

Strategy

NI / Sequencing & Ordering / Fractions

Read and order any number up to 1000 000

698 999

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Read decimals to 3 d.p

0.764

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Read any fraction inc. >1

$\frac{8}{6}$ $\frac{4}{5}$ $1\frac{1}{3}$

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Order unit fractions

$\frac{1}{10}$ $\frac{1}{8}$ $\frac{1}{4}$ $\frac{1}{2}$

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Say numbers 1, 10, 100 and 1000 more or less

654 754 854
8432 7432

NI / Sequencing & Ordering / Fractions

"Count forwards and backwards in $\frac{1}{2}$s, $\frac{1}{4}$s, $\frac{1}{3}$s, $\frac{1}{5}$s, $\frac{1}{10}$s"

$\frac{8}{10}$ $\frac{9}{10}$ 1 $1\frac{1}{10}$

Grouping & Place Value

Know groupings of 10s and 100s in a 4-digit number

4676 = 467 tens and 46 hundreds

Grouping & Place Value

Know groupings within 1000

455 and 555
200 and 800

Grouping & Place Value

Know groups of 2s, 3s, 5s and 10s in numbers to 100 and any remainders

threes in 17 =
5 and 2 remainders

Grouping & Place Value

Round whole numbers to the nearest 10, 100, 1000

5508 → 6000

Grouping & Place Value

Round decimals to the nearest whole number

3.49 → 3

Basic Facts

Recall all basic multiplication facts

3 x 8 = 24
7 x 7 = 49

Basic Facts

Recall addition & subtraction facts to 20

13 + 5 = 18
16 - 9 = 7

Basic Facts

Know what happens when you multiply by 1, 0 or 10

14 x 10 = 140

Addition & Subtraction (using a broad range of mental strategies)

Compensation (from tidy numbers)

394 + 79 →
(394 + 80) - 1

Addition & Subtraction (using a broad range of mental strategies)

Place value partitioning

394 + 79 →
390 + 70 + 9 + 4

Addition & Subtraction (using a broad range of mental strategies)

Compatible numbers

45 + 37 + 65 →
(45 + 65) + 37

Addition & Subtraction (using a broad range of mental strategies)

Reversibility

403 - 97 →
97 + ? = 403

Addition & Subtraction (using a broad range of mental strategies)

Equal additions (add to both numbers)

403 - 97 →
406 - 100

Addition & Subtraction (using a broad range of mental strategies)

Standard written form for addition

4394
+ 579

Addition & Subtraction (using a broad range of mental strategies)

Standard written form for subtraction

$$\begin{array}{r} 2403 \\ -\ 1097 \\ \hline \end{array}$$

Multiplication & Division (deriving multiplication facts)

Doubling

8 x 3→2 x (4 x 3)

Multiplication & Division (deriving multiplication facts)

Addition and subtraction

8 x 3→(7 x 3) + 3

Multiplication & Division (deriving multiplication facts)

Reversing

63 ÷ 9→9 x ? = 63

Multiplication & Division (deriving multiplication facts)

Doubling and halving

$3 \times 12 \rightarrow 6 \times 6$

Multiplication & Division (deriving multiplication facts)

Rounding/compensation

$9 \times 6 \rightarrow (10 \times 6) - 6$

Multiplication & Division (deriving multiplication facts)

Multiplying by tens and hundreds

$70 \times 5 \rightarrow 7 \times 5 \times 10$

Fractions (using multiplication and division strategies)

Find fractions of whole numbers

$\frac{3}{4}$ of 24 = ?

$\frac{3}{4}$ of what is 21?

Fractions (using multiplication and division strategies)

Solve simple equivalent ratio and rate problems

2:3 so ?:6

Fractions (using multiplication and division strategies)

Compare fraction sizes with whole numbers

$$\frac{37}{7} = 5\frac{2}{7}$$