

Basic Facts Ladder

Stage 8

- Lowest common multiples of numbers to 10 e.g. 24 is the least common multiple of 6 & 8)
- Student identifies common factors to 100 including highest common factors e.g. common factors of 48 and 64 = (1, 2, 4, 8, 16) H.C.F. = 16
- The student knows divisibility rules for 2, 3, 4, 5, 6, 8 and 10 e.g. 5632 is divisible by 8 since 632 is divisible by 8 e.g. 756 is divisible by 3 and 9 as it's digital root is 9
- Students recall percentage conversions for given fractions and decimals e.g. $\frac{9}{8} = 1.25 = 112.5\%$
- Students recall conversions fraction \leftrightarrow decimals e.g. $\frac{1}{8} = 0.125$
- Student knows simple powers of numbers to 10 e.g. $2^4 = 16$, $5^3 = 125$

Stage 7

- Common multiples of numbers to 10 e.g. 35, 70, 105 are common multiples of 5 Division facts divided by 7
- Prime numbers e.g. 13, 19 (numbers with no factors other than themselves e.g. $13 = 1 \times 13$)
- Factors of numbers to 100 e.g. factors of 64 = (1, 2, 4, 8, 16, 32, 64)
- Knows square Numbers and square roots to 100 e.g. 7 squared = 49 $\sqrt{49} = 7$
- Division facts divided by 9 i.e. $63 / 9 = 7$
- Division facts divided by 8
- Division facts divided by 7
- Division facts divided by 6

Stage 6

- Knows division with any number divided by 10; 100; 1,000
- Knows multiplication with any number $\times 10$; $\times 100$; $\times 1,000$
- Knows any division facts with 1, 2, 5 and 10
- Multiplication facts 8 \times
- Multiplication facts 7 \times
- Multiplication facts 6 \times
- Multiplication facts 9 \times
- Multiplication facts 4 \times
- Multiplication facts 3 \times e.g. 4×3 ; 6×3
- Knows any multiplication facts with 0, 1, 2, 5 and
- Subtraction facts to 20 e.g. $13 - 7$; $15 - 8$
- Addition facts to 20 e.g. $9 + 5$; $8 + 7$

Basic Facts Ladder

Stage 5

- multiples of 100 that add to numbers up to 900 e.g. $400+300$ $200+500$
- multiples of 100 that add up to 1000 e.g. $400+600$, $700+300$
- division by 5
- division by 10
- division by 2
- 5x tables $5 \times 6 = 30$
- 10x tables $10 \times 5 = 50$
- 2x tables $2 \times 4 = 8$
- addition facts with any numbers to 20 e.g. $7+5$ $8+7$ $6+9$

Stage 4

- halves of even numbers to 20 e.g. $1/2$ of 16.
- doubles to 20
- multiples of 10 that add up to numbers less than 100 e.g. $30+40$, $20+40$...
- multiples of 10 that add to 100 e.g. $30+70$, $50+50$
- how many 10's in 20, 30,.....?
- 'ty' numbers 10, 20, 30, 40....multiples of 10
- teen numbers/'ten and' facts e.g. $3+10$ $5+10$ $10+4$ $6+_ = 10$
- subtraction facts with any numbers to 10 e.g. $6-4$ $7-2$ $5-4$
- addition facts with any numbers to 10 e.g. $5+3$ $4+5$ $3+3$

Stage 2-3

- Subtraction to 5 (e.g. $5-4$, $5-2$)
- Doubles that total 10 or less
- Groupings to make 10 (e.g. $6+4$, $4+6$, etc)
- Facts with 5 (e.g. $5+1$, $3+5$)
- Addition up to 5 (e.g. $4+1$, $3+2$)

Stage 0-1

- Tens frames patterns
- Finger patterns to 10
- Dice patterns to six
- Finger patterns to 5 (e.g. hold up three fingers and know it is three instantly)