

Curriculum for Excellence Level 2 (by the end of P7 or earlier for some)

Aug-Dec of P7

- add / subtract any single digit number to / from 2 or 3 digits and practice all tables to 10
- use decimals to find halves of whole numbers eg $1/2$ of 7 is 3.5 and discuss a digit, its place and its value, including decimals
- give remainders to division eg $17 \div 8$, $24 \div 9$
- multiply and divide decimals by 10 and 100 eg 2.8×100 , 3.57×100 and $4.8 \div 10$, $3.14 \div 100$, ...
- for whole number work determine which calculations are needed and share solutions
- find $2/3$, $3/4$, $2/5$ etc of quantities eg $2/3$ of 12, $3/4$ of 20, $2/5$ of 20, $3/5$ of 10, $4/5$ of 30 and fractions of 3 digit numbers eg $1/4$ of 600
- bond 3 digit numbers with 1000, eg 505 and 495, and find the change from £10 eg £5.05
- add and subtract 2 digit numbers to/from 2 digit numbers eg $69+36$, $74-29$,
- convert between 12 and 24 times, find time differences, eg between 15:45 and 16:05 and simple time / distance / speed calculations
- find 50%, 25% and 10% of quantities eg 25% of 12 apples, 10% of 40 kg, ...
- recognise the equivalence between fractions, decimals and percentages eg $1/4 = 0.25 = 25\%$ or $3/4 = 0.75 = 75\%$, $1/5 = 0.2 = 20\%$ and choose the preferred form when solving a problem, explaining the choice of method
- multiply and divide 2 and 3 digit numbers by a single digit eg 35×4 , 55×6 , and $60 \div 5$, $135 \div 3$, ...
- find change from £5, £10 and £20 compare costs and determine what can be afforded
- add and subtract simple decimals eg $5 + 1.7$ and $6 - 2.5$

Mental agility progressions and flashcards from the **WEE RED BOX**

Jan - March of P7

- find the doubles of any 2 or 3 digit number eg 2×56 , 2×87 , 2×242 , 2×351 , ..
- do **simple** addition and subtraction of fractions eg $1/2 + 1/4$, $3 - 1/2$, $2/5 + 3/5$, $1/2 - 1/4$
- add and subtract 2 digit numbers to/from 2 digit numbers eg $69+37$, $51-28$, including decimals
- do simple additions involving negative numbers and investigate how these numbers are used
- use decimals to find halves and quarters eg $1/2$ of 2.5 is 1.25, $1/4$ of 9 is 2.25
- add and subtract multiples of 10 and 100 to / from 4 digits eg $2684+300$, $5167-60$
- multiply and divide decimals by 10 and 100 eg 61.6×10 , $31 \div 10$, 9.8×100 , $236.3 \div 10$
- find $2/3$, $3/4$, $2/5$ etc eg $2/3$ of 18, $3/4$ of 24, $2/5$ of 30, $3/5$ of 40, $4/5$ of 35, ... , $1/6$, $1/7$ and $1/8$, and fractions of 3 digit numbers eg $1/2$ of 950, ...
- use knowledge of rounding to estimate the answer to a problem, then after calculating, decide if the answer is reasonable and share solution
- find 50%, 25% and 10% of simple quantities eg 25% of 32m, or 10% of 40
- recognise the equivalence between fractions, decimals and percentages eg $2/5 = 0.4 = 40\%$, and discuss and use mental agility strategies for fractions, percentages and decimal fractions
- multiply and divide 2 and 3 digit numbers by a single digit eg 55×4 , 15×9 , and $80 \div 5$, $165 \div 3$, ...
- convert between related units of the metric system and use common units when estimating sizes, including perimeters areas and volumes
- give remainders to division eg $17 \div 8$, $24 \div 9$

For maths CPD and/or other support materials from Tom Renwick visit www.mathsontrack.com

April - June of P7

- multiply and divide decimals by 10 and 100 eg 31.6×10 , 53.06×10 , 119.8×100 , 23.06×100 and $143 \div 10$, $47.05 \div 10$, $155 \div 100$, ...
- find change from £20, and compare costs and determine what can be afforded, using terms profit and loss in simple calculations
- find fractions of quantities eg $2/3$ of 27, $3/4$ of 32, $4/5$ of 40, $1/6$ of 36, $1/7$ of 35 and $1/8$ of 64, $3/10$ of 40, and everyday contexts in which fractions are used, discuss and use mental agility strategies for fractions
- find 50%, 25%, and 10% eg 50% of 7 kg, 25% of £24, 10% of 18 and discuss mental strategies
- use decimals to find $1/2$ or $1/4$ eg $1/2$ of 2.5 is 1.25, $1/4$ of 13 is 3.25 explain the links between a digit, its place and its value, including decimals
- add and subtract multiples of 10 and 100 to / from 4 digits eg $4288+800$, $5177-80$
- recognise the equivalence between fractions, decimals and percentages eg $2/3 = 0.67 = 67\%$, and choose the preferred form when solving a problem, explaining the choice of method
- multiply and divide 2 and 3 digit numbers by a single digit eg 75×4 , 55×8 , and $90 \div 5$, $240 \div 6$
- do simple fraction add and subtract sums such as $1 - 2/5$ or $1 1/4 + 3/4$ and recognise if a fraction is $>$ or $<$ than a half eg $2/5$ is less, and $3/5$ is more
- do simple additions involving negative numbers and investigate how these numbers are used
- calculate time differences using electronic or paper based time tables simple and do simple time / distance / speed calculations
- add and subtract simple decimals eg $3.6 + 2.5$ and $2.7 - 1.2$