Strategy Overview Stage 7

1.
Use a range of mental strategies to solve problems including combinations of addition, subtraction, multiplication and division of whole numbers.

2.
Multiply using standard place value partitioning e.g. $28 \times 6 = (20 \times 6) + (8 \times 6)$
OR using rounding and compensating e.g. $28 \times 6 = (30 \times 6) - (2 \times 6)$
OR using doubling and halving, thirding and trebling e.g. 868×5 as 434×10

3.
Divide using standard place value partitioning e.g. $145 \div 5 = 100 \div 5 + 45 \div 5$
OR using rounding and compensating e.g. $96 \div 4$ from $100 \div 4$
OR using doubling and halving, thirding and trebling.
OR using reversibility e.g. $96 \div 4$ as $4 \times \_\_ = 96$

4.
Use factors and divisibility rules to solve multiplication and division problems.

5.
Solve multiplication and division problems using algorithms.

6.
Solve mixed problems by knowing the order of operations e.g brackets first then multiplication and division.

7.
Find fractions of whole numbers and of other fractions. Order fractions.

8.
Find equivalent fractions e.g. $25/30 = 5/6$
Rename improper fractions.

9.
Add, subtract and multiply fractions. Divide numbers that have fractions as the answers.

10.
Add and subtract decimals using all known strategies.

11.
Convert fractions into decimals and percentages. Find percentages of whole numbers.

12.
Find relationships in repeat and sequential patterns.

13.
Solve rate problems e.g I wash 9 cars in 2 hours so 45 in 10 hours. Solve ratio problems.

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