Year 6 Progression in maths


| Subtraction | Pupils should be taught to: <br> - perform mental calculations, including with mixed operations and large numbers <br> - use their knowledge of the order of operations to carry out calculations involving the four operations <br> - solve subtraction multi-step problems in contexts, deciding which operations and methods to use and why <br> - solve problems involving subtraction <br> - use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. | Strategies: <br> - Diennes on PV mats <br> - Place value counters \& PV mat once secure with diennes <br> - Expanded column subtraction <br> Children should be competent in compact methods of all four operations. Use the above to support children who are not. | The following strategies are for children not at ARE or to prove their thinking/'show another way'. <br> All year 6 children should be able to use the formal method for all four operations. |  |
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| Division | Pupils should be taught <br> to: |
| :--- | :--- |
| - divide numbers up to 4 |  |

- divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context
- divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
- perform mental
calculations, including
with mixed operations and large numbers
- use their knowledge of the order of operations to carry out calculations involving the four operations
- solve problems involving division
- use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
- Use written
division methods in cases where the and has up to 2dp.
- [Divide numbers up to 2dp by U/TU whole numbers.

Strategies:

- Grouping with concrete resources (low attainers who lack understanding of concept)
- Timestable grids
- Short division using diennes
- Short division using place value counters
- Expanded long division

Children should be competent in compact methods of all four operations. Use the above to support children who are not.

The following strategies are for children not at ARE or to prove their
thinking/'show another way'.
All year 6 children should be able to use the formal method for all four operations.

For children not working at a year 6 level:
Draw dots and group them to divide an

amount and clearly show a remainder.

Children to only move on to short division when they fully understand PV.

 (estimate $500 \div 10=50$ )


Answer: $45 \frac{1}{11}$
$432+15=28.8$


