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| Year 3  ES | End of year expectations for mental calculation | End of year expectations for written methods and problem solving | Written strategies/ recordings/methods/images | Vocabulary  &  Links |
| Pupils should be taught to:   * Recall and use multiplication and division facts for the 3, 4 and 6 multiplication tables.   *Pupils should continue to practise their mental recall of*  *multiplication tables... in order to improve fluency.*  *Pupils develop efficient mental methods, for example, using commutativity and associativity*  *(e.g., 4 × 12 × 5 = 4 × 5 × 12 = 20 × 12 = 240)*  *and multiplication and division facts to derive related facts.* | Pupils should be taught to:   * Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods. * Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.   FRACTIONS   * Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers or quantities by 10. * Recognise and show, using diagrams, equivalent fractions   with small denominators.   * Recognise, find and write fractions of a discrete set of objects:   unit fractions and non-unit fractions with small denominators. | *“4 x 3 is 12, so*  *12 ÷ 3 = 4.”* | Pupils will solve simple problems in contexts, including measuring and  scaling contexts,  (e.g., four times as high etc.)  and correspondence  problems. |