Written methods for division.

4C Use informal and standard written methods to divide TU by U.

Informal method.

72 ÷ 5 = (50 + 22) ÷ 5   or   72 ÷ 5 =
       = 10 + 4 remainder 2   72
       = 14 remainder 2   - 50   (10 x 5)
                                                    22
                                           - 20   (4 x 5)
                                                    2

Answer 14 remainder 2.

4B Use Informal and standard written methods to divide HTU by U.

Informal Method
Decision made not to using chunking method in school as its too confusing for

Standard written methods

                    032 r 4
196 ÷ 6   6)1¹96

4A Use informal and standard written methods to divide HTU by TU including decimals to 1 DP.

Informal method
977 ÷ 36 is approximately 1000 ÷ 40 = 25

         977
      - 360   (36 x 10)
         617
      - 360   (36 x 10)
         257
      - 180   (36 x 5)
         77
      - 72   (36 x 2)
          5
Answer: 27 5/36 (answer written as a fraction)

Standard methods
972 ÷ 36 is approximately 1000 ÷ 40 = 25

                    ____   _27
             36) 972   36) 972
           -    720   (20 x 36)   -   72
              252   252
          -    252   (7 x 36)   -   252
                0   0
Answer: 27

87.5 ÷ 7 is approximately 80 ÷ 8 = 10

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      _____
   7) 87.5
   -  70.0  (10 x 7)
      17.5
   -  14.0  (2 x 7)
       3.5
   -   3.5  (0.5 x 7)
       0.0
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Answer: 12.5

CONSISTENT PRINCIPLES:

Set numbers out in horizontal layout as demonstrated.
Digits need to be carefully aligned and in appropriate columns.
Work from left to right i.e. start with most significant digit first.
Final remainders to be placed above the line and represented as remainder or r.
When first introduced then language must indicate the value of the digit, when more
comfortable may find is easier to use the number name when calculating