

Decimals and long division

The understanding tested and common errors are noted for each question, with a link provided to relevant support material. The answers for 2 digit divisors include the relevant multiples.

Always check the digits in the question have been copied correctly.

Mistakes with division facts may be common. A [multiplication square](#) can be used by the pupil, to rule these out and focus on the method.

- 1) $8060 \div 2 = 4030$ *Calculating with zero.*
- 2) $5,432 \div 4 = 1358$ *Calculating a remainder.*
- 3) $2,850 \div 5 = 570$ *Zero with remainder, calculating with zero.*
- 4) $2,416 \div 8 = 302$ *Zero with remainder, commutativity.*
- 5) $6.44 \div 4 = 1.61$ *Dividing a decimal.*
- 6) $94 \div 8 = 11.75$ *Remainder as a decimal.*
- 7) $2 \div 8 = 0.25$ *Zero with remainder, remainder as a decimal, commutativity.*
- 8) $4,199 \div 13 = 323$ **13, 26, 39**
Long division, zero with remainder, calculating a remainder.
- 9) $6,468 \div 12 = 539$ **12, 24, 36, 48, 60, 72, 84, 96, 108**
Long division, 2-digit remainder, zero with remainder, commutativity.
- 10) $5,830 \div 22 = 265$ **22, 44, 66, 88, 110, 132**
Long division, 2-digit remainder, zero with remainder, calculating with zero.

Understanding tested

Calculating with zero
Calculating a remainder
Zero with remainder
Dividing a decimal
Remainder as a decimal
Long division
2-digit remainder
Commutativity

Question numbers

1, 3, 10
2, 8,
3, 4, 7, 8, 9, 10
5
6, 7
8, 9, 10
9, 10
4, 7, 9