Rational numbers: operations, powers and large numbers — Further practice

Year 7, upper volume • text pp. 15–40 • foundation lessons 8–20

Further practice 11

Evaluate without treating the whole expression as zero.

$$(-5) \times 0 + 4$$

Further practice 12

Evaluate the quotient before the subtraction.

$$(-24) \div (-6) - 5$$

Further practice 13

Write 7200000 in scientific notation. State the allowed range of the coefficient.

$$7200000$$

Further practice 14

Round 3.146 to two decimal places. Identify the digit that decides the rounding.

Extension 15

Evaluate exactly and explain the sign of the product being subtracted.

$$\frac{1}{2} - \frac{3}{4} \times (-2)$$

Extension 16

A learner writes 8 ÷ 0 = 0. Is this defined? Explain using the multiplication that division would require.