

A little practice. A clearer mind.

Try each question first. Use the answer to check your thinking.

01 Calculate $2^3 \times 2^4$. Give your answer as a power of 2 and as a number.

Answer: $2^7 = 128$. Add exponents when multiplying powers with the same base.

02 Solve $3x - 7 = 20$.

Answer: $x = 9$. Add 7 to obtain $3x = 27$, then divide by 3.

03 Three angles of a quadrilateral are 80, 95 and 110 degrees. Find the fourth.

Answer: 75 degrees. The four interior angles total 360 degrees.

04 Find the square root of 144.

Answer: 12, because $12 \times 12 = 144$.

05 A bag costs Rs 800 before a 15% discount. Find the sale price.

Answer: Rs 680. The discount is Rs 120, so subtract 120 from 800.

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06 Expand $3(x + 4)$.

Answer: $3x + 12$. Multiply both terms in the bracket by 3.

07 A die numbered 1 to 6 is fair. Find the probability of rolling an even number.

Answer: $1/2$. There are 3 even outcomes out of 6 equally likely outcomes.

08 A rectangular box measures 8 cm by 5 cm by 3 cm. Find its volume.

Answer: 120 cubic cm. Multiply length x width x height.

09 Write 0.00045 in scientific notation.

Answer: 4.5×10^{-4} . The decimal point moves four places to the right.

10 A car travels 120 km using 8 litres of fuel. At the same rate, how far will it travel using 5 litres?

Answer: 75 km. It travels 15 km per litre, so $15 \times 5 = 75$.
