

Question 1 Express 3080 as a product of prime factors $2^3 \times 5 \times 7 \times 11$	Question 2 Express 81 as a product of prime factors 3^4	Question 3 Find the nth term of 4, 11, 18, 25,... $7n - 3$	Question 4 Find the 50th term of 8, 10, 12, 14,... 106
Question 5 Work out $5 \times 4 - 2 \times 5$ 10	Question 6 Work out $40 - 9 \times 4$ 4	Question 7 Work out $7.1 \times 5.6 =$ 39.76	Question 8 Work out $14972 \div 38 =$ 394
Question 9 Work out $15.6 \times 2.2 =$ 34.32	Question 10 Work out $9945 \div 39 =$ 255	Question 11 Work out $2 \frac{1}{4} \div \frac{2}{3} =$ $3 \frac{3}{8}$	Question 12 Work out $1 \frac{2}{3} \div 0 \frac{1}{2} =$ $3 \frac{1}{3}$
Question 13 Increase £1340 by 10% £1474	Question 14 Decrease £5480 by 10% £4932	Question 15 Expand and simplify $5(2x - 5) - 5(3x - 2)$ $-5x - 15$	Question 16 Expand and simplify $2x(2x + 3) + 2x(3x + 5)$ $10x^2 + 16x$
Question 17 Solve $8x + 2 = 4x - 14$ $x = -4$	Question 18 Solve $3(9x + 5) = -66$ $x = -3$	Question 19 Work out the value of $5x - 9$ when $x = 4$ 11	Question 20 Work out the value of $30 + 5b$ when $b = 4$ 50



Question 1 Express 720 as a product of prime factors $2^4 \times 3^2 \times 5$	Question 2 Express 35 as a product of prime factors 5×7	Question 3 Find the nth term of 5, 16, 27, 38,... $11n - 6$	Question 4 Find the 50th term of 7, 15, 23, 31,... 399
Question 5 Work out $9 \times (5 + 4)$ 81	Question 6 Work out $9 + 12 \times 4$ 57	Question 7 Work out $16.5 \times 8.6 =$ 141.9	Question 8 Work out $12818 \div 29 =$ 442
Question 9 Work out $4.7 \times 8.1 =$ 38.07	Question 10 Work out $4928 \div 32 =$ 154	Question 11 Work out $2 \frac{7}{9} - \frac{1}{3} =$ $2 \frac{4}{9}$	Question 12 Work out $3 \frac{1}{4} - 2 \frac{2}{5} =$ $\frac{17}{20}$
Question 13 Increase £340 by 5% £357	Question 14 Decrease £5480 by 10% £4932	Question 15 Expand and simplify $3(3x - 4) - 3(2x - 3)$ $3x - 3$	Question 16 Expand and simplify $5x(3x + 5) + 2x(5x - 3)$ $25x^2 + 19x$
Question 17 Solve $4x - 4 = 2x$ $x = 2$	Question 18 Solve $5(2x + 4) = 60$ $x = 4$	Question 19 Work out the value of $6x - 4$ when $x = 2$ 8	Question 20 Work out the value of $27 - 2x^2$ when $x = 2$ 19



Question 1 Express 220 as a product of prime factors $2^2 \times 5 \times 11$	Question 2 Express 55 as a product of prime factors 5×11	Question 3 Find the nth term of 6, 10, 14, 18,... $4n + 2$	Question 4 Find the 50th term of 14, 24, 34, 44,... 504
Question 5 Work out $12 \times (8 + 4p^2)$ 288	Question 6 Work out $47 - 2 \times 4$ 39	Question 7 Work out $3.1 \times 3.1 =$ 9.61	Question 8 Work out $5487 \div 31 =$ 177
Question 9 Work out $12 \times 4.4 =$ 52.8	Question 10 Work out $17950 \div 50 =$ 359	Question 11 Work out $3 \frac{1}{5} \times \frac{1}{2} =$ $1 \frac{3}{5}$	Question 12 Work out $2 \frac{4}{5} - \frac{1}{2} =$ $2 \frac{3}{10}$
Question 13 Increase £400 by 10% £440	Question 14 Decrease £500 by 20% £400	Question 15 Expand and simplify $2(2x + 3) + 5(2x + 4)$ $14x + 26$	Question 16 Expand and simplify $4x(2x + 4) + 3x(4x - 3)$ $20x^2 + 7x$
Question 17 Solve $5x - 3 = 4x + 1$ $x = 4$	Question 18 Solve $4(8x - 3) = -76$ $x = -2$	Question 19 Work out the value of $27 - 4c$ when $c = -5$ 47	Question 20 Work out the value of $20 - 3a$ when $a = 4$ 8



Question 1 Express 154 as a product of prime factors $2 \times 7 \times 11$	Question 2 Express 105 as a product of prime factors $3 \times 5 \times 7$	Question 3 Find the nth term of 14, 25, 36, 47,... $11n + 3$	Question 4 Find the 50th term of 16, 27, 38, 49,... 555
Question 5 Work out $3 + 11 \times 3^2$ 102	Question 6 Work out $34 - 7 \times 4$ 6	Question 7 Work out $19.2 \times 6.8 =$ 130.56	Question 8 Work out $2574 \div 66 =$ 39
Question 9 Work out $2.9 \times 7.9 =$ 22.91	Question 10 Work out $1408 \div 44 =$ 32	Question 11 Work out $1 \frac{1}{3} \times 1 \frac{1}{2} =$ 2	Question 12 Work out $1 \frac{1}{4} \div 2 \frac{1}{2} =$ $\frac{1}{2}$
Question 13 Increase £340 by 5% £357	Question 14 Decrease £7200 by 5% £6840	Question 15 Expand and simplify $5(2x + 5) + 4(4x - 5)$ $26x + 5$	Question 16 Expand and simplify $3(2x - 3) - 3(5x - 4)$ $-9x + 3$
Question 17 Solve $7x - 4 = 5x - 10$ $x = -3$	Question 18 Solve $5(8x - 2) = -130$ $x = -3$	Question 19 Work out the value of $4c + 8$ when $c = 2$ 16	Question 20 Work out the value of $21 - 3y$ when $y = 0.5$ 19.5



Question 1 Express 288 as a product of prime factors $2^5 \times 3^2$	Question 2 Express 60 as a product of prime factors $2^2 \times 3 \times 5$	Question 3 Find the nth term of 4, 14, 24, 34,... $10n - 6$	Question 4 Find the 50th term of 4, 10, 16, 22,... 298
Question 5 Work out $8 \times (2 + 5)$ 56	Question 6 Work out $11 \times 5 - 2 \times 6$ 43	Question 7 Work out $14.8 \times 4.7 =$ 69.56	Question 8 Work out $18424 \div 56 =$ 329
Question 9 Work out $13.9 \times 4.3 =$ 59.77	Question 10 Work out $25193 \div 61 =$ 413	Question 11 Work out $1 \frac{2}{3} \div 2 \frac{1}{2} =$ $\frac{2}{3}$	Question 12 Work out $2 \frac{1}{5} \div \frac{1}{3} =$ $6 \frac{3}{5}$
Question 13 Increase £1260 by 10% £1386	Question 14 Decrease £7720 by 20% £6176	Question 15 Expand and simplify $5(2x + 5) + 4(5x - 2)$ $30x + 17$	Question 16 Expand and simplify $4(5x - 4) - 4(2x - 3)$ $12x - 4$
Question 17 Solve $6x - 2 = 5x$ $x = 2$	Question 18 Solve $5(4x + 5) = 15$ $x = -0.5$	Question 19 Work out the value of $4a - 2$ when $a = -3$ -14	Question 20 Work out the value of $21 - 3a^2$ when $a = 2$ 9



Question 1 Express 231 as a product of prime factors $3 \times 7 \times 11$	Question 2 Express 864 as a product of prime factors $2^5 \times 3^3$	Question 3 Find the nth term of 14, 26, 38, 50,... $12n + 2$	Question 4 Find the 50th term of 14, 24, 34, 44,... 504
Question 5 Work out $9 \times 7 - 4 \times 6$ 39	Question 6 Work out $12 \times 5 + 5 \times 3$ 75	Question 7 Work out $15.4 \times 7.5 =$ 115.5	Question 8 Work out $22814 \div 61 =$ 374
Question 9 Work out $10.9 \times 6.9 =$ 75.21	Question 10 Work out $2444 \div 52 =$ 47	Question 11 Work out $3 \frac{1}{9} + 2 \frac{1}{3} =$ $5 \frac{4}{9}$	Question 12 Work out $3 \frac{5}{6} \times 2 \frac{2}{3} =$ $2 \frac{5}{9}$
Question 13 Increase £2720 by 10% £2992	Question 14 Decrease £560 by 5% £532	Question 15 Expand and simplify $4(3x + 4) + 5(5x - 4)$ $37x - 4$	Question 16 Expand and simplify $3(3x + 4) + 3(4x - 3)$ $21x + 3$
Question 17 Solve $8x + 1 = 3x - 14$ $x = -3$	Question 18 Solve $3(6x + 3) = -9$ $x = -1$	Question 19 Work out the value of $4a + 3$ when $a = 0.5$ 5	Question 20 Work out the value of $24 - 3b$ when $b = 2$ 18



Question 1 Express 168 as a product of prime factors $2^3 \times 3 \times 7$	Question 2 Express 84 as a product of prime factors $2^2 \times 3 \times 7$	Question 3 Find the nth term of 15, 26, 37, 48,... $11n + 4$	Question 4 Find the 50th term of 2, 6, 10, 14,... 198
Question 5 Work out $5 \times 8 + 2 \times 3$ 46	Question 6 Work out $5 \times 11 - 4 \times 5$ 35	Question 7 Work out $11.7 \times 5.1 =$ 59.67	Question 8 Work out $7800 \div 25 =$ 312
Question 9 Work out $9.3 \times 7.7 =$ 71.61	Question 10 Work out $25488 \div 59 =$ 432	Question 11 Work out $3 \frac{1}{9} - 0 \frac{2}{5} =$ $2 \frac{32}{45}$	Question 12 Work out $1 \frac{1}{6} + 2 \frac{2}{3} =$ $3 \frac{5}{6}$
Question 13 Increase £2920 by 10% £3212	Question 14 Decrease £5480 by 10% £4932	Question 15 Expand and simplify $2(2x + 3) + 2(4x - 2)$ $12x + 2$	Question 16 Expand and simplify $3x(2x + 3) + 4x(2x + 4)$ $14x^2 + 25x$
Question 17 Solve $5x + 2 = 3x + 6$ $x = 2$	Question 18 Solve $3(3x + 4) = 66$ $x = 6$	Question 19 Work out the value of $25 - 4a$ when $a = -5$ 45	Question 20 Work out the value of $10 - y$ when $y = 2$ 8



