Question 1	Question 2	Question 3	Question 4
Expand and simplify (x - 6)(x + 5)	Expand and simplify (x + 2)(x + 2)	Work out 2311×10^3	Work out $674000 \div 10^4$
Question 5 Distance = 16 km, Time = 15 minutes , speed = ? km/h	**Question 6** Distance = 90 km, Time = 1 hour 30 minutes , speed = ? km/h	**Question 7** Work out $2\frac{1}{2} \times \frac{4}{5}$	**Question 8** Work out $2\frac{2}{5} \times \frac{1}{3}$
Question 9 Express 110 as a product of prime factors	**Question 10** Express 40 as a product of prime factors	**Question 11** Solve $\frac{3x + 68}{8} = x + 6$	**Question 12** Solve $\frac{5x + 16}{2} = x + 5$
Question 13 List the first 4 terms of a Geometric sequence with a first term of 2 and a common ratio of 5	**Question 14** List the first 4 terms of a Geometric sequence with a first term of 4 and a common ratio of 4	**Question 15** Divide £65 in the ratio 2 : 11	**Question 16** Divide £24 in the ratio 7 : 1
Question 17 Decrease £4600 by 20%	**Question 18** Decrease £7720 by 20%	**Question 19** Simplify $(3x^2y^5)^3$	**Question 20** Simplify $(3x^2z^4)^2$

SKILLS CHECK

Score

Question 1 Expand and simplify (x - 2)(x - 3)	**Question 2** Expand and simplify (x + 6)(x + 3)	**Question 3** Work out 21.21×10^2	**Question 4** Work out $1838000 \div 10^3$
Question 5 Distance = 9 km, Time = 20 minutes , speed = ? km/h	**Question 6** Distance = 72 km, Time = 2 hours , speed = ? km/h	**Question 7** Work out $2\frac{2}{7} \times 1\frac{1}{3}$	**Question 8** Work out $1\frac{1}{2} \times \frac{1}{2}$
Question 9 Express 330 as a product of prime factors	**Question 10** Express 216 as a product of prime factors	**Question 11** Solve $\frac{4x+6}{2} = x + 6$	**Question 12** Solve $\frac{5x-23}{6} = x - 4$
Question 13 List the first 4 terms of a Geometric sequence with a first term of 2 and a common ratio of 4	**Question 14** List the first 4 terms of a Geometric sequence with a first term of 2 and a common ratio of 4	**Question 15** Divide £80 in the ratio 3 : 5	**Question 16** Divide £132 in the ratio 3 : 8
Question 17 Decrease £5480 by 10%	**Question 18** Decrease £4600 by 20%	**Question 19** Simplify $(3x^3y^3)^3$	**Question 20** Simplify $(2xy^4)^2$

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Question 1 Expand and simplify (x - 1)(x + 4)	**Question 2** Expand and simplify (x + 7)(x + 1)	**Question 3** Work out 2.367×10^3	**Question 4** Work out $19060 \div 10^4$
Question 5 Distance = 8 km, Time = 15 minutes , speed = ? km/h	**Question 6** Distance = 16 km, Time = 15 minutes , speed = ? km/h	**Question 7** Work out $3\frac{5}{7} \times \frac{3}{5}$	**Question 8** Work out $1\frac{1}{3} \times 1\frac{2}{3}$
Question 9 Express 30 as a product of prime factors	**Question 10** Express 220 as a product of prime factors	**Question 11** Solve $\frac{4x-18}{2} = x - 5$	**Question 12** Solve $\frac{8x-31}{6} = x - 5$
Question 13 List the first 4 terms of a Geometric sequence with a first term of 2 and a common ratio of 4	**Question 14** List the first 4 terms of a Geometric sequence with a first term of 1 and a common ratio of 2	**Question 15** Divide £42 in the ratio 1 : 5	**Question 16** Divide £24 in the ratio 5 : 3
Question 17 Decrease £7200 by 5%	**Question 18** Increase £2700 by 20%	**Question 19** Simplify $(3x^4z^4)^4$	**Question 20** Simplify $(3x^3y^2)^2$

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Question 1 Expand and simplify (x + 4)(x + 7)	**Question 2** Expand and simplify (x + 7)(x + 2)	**Question 3** Work out 2.151×10^2	**Question 4** Work out $23930 \div 10^2$
Question 5 Distance = 5 km, Time = 10 minutes , speed = ? km/h	**Question 6** Distance = 25 km, Time = 30 minutes , speed = ? km/h	**Question 7** Work out $3\frac{3}{5} \times 2\frac{2}{3}$	**Question 8** Work out $2\frac{1}{7} \times \frac{1}{2}$
Question 9 Express 210 as a product of prime factors	**Question 10** Express 44 as a product of prime factors	**Question 11** Solve $\frac{4x-12}{5} = x - 3$	**Question 12** Solve $\frac{4x-47}{10} = x - 5$
Question 13 List the first 4 terms of a Geometric sequence with a first term of 3 and a common ratio of 10	**Question 14** List the first 4 terms of a Geometric sequence with a first term of 4 and a common ratio of 5	**Question 15** Divide £27 in the ratio 1 : 2	**Question 16** Divide £132 in the ratio 5 : 7
Question 17 Decrease £7720 by 20%	**Question 18** Increase £2700 by 20%	**Question 19** Simplify $(4x^5y)^4$	**Question 20** Simplify $(3x^3y)^2$

SKILLS CHECK

Score

Question 1 Expand and simplify (x + 6)(x - 3)	**Question 2** Expand and simplify (x - 3)(x + 5)	**Question 3** Work out 1.8×10^2	**Question 4** Work out $30100 \div 10^3$
Question 5 Distance = 114 km, Time = 1 hour 30 minutes , speed = ? km/h	**Question 6** Distance = 16 km, Time = 15 minutes , speed = ? km/h	**Question 7** Work out $2\frac{1}{7} \times \frac{3}{4}$	**Question 8** Work out $3\frac{2}{5} \times \frac{1}{2}$
Question 9 Express 440 as a product of prime factors	**Question 10** Express 1080 as a product of prime factors	**Question 11** Solve $\frac{2x-14}{6} = x - 3$	**Question 12** Solve $\frac{3x+13}{2} = x + 5$
Question 13 List the first 4 terms of a Geometric sequence with a first term of 3 and a common ratio of 5	**Question 14** List the first 4 terms of a Geometric sequence with a first term of 2 and a common ratio of 6	**Question 15** Divide £143 in the ratio 11 : 2	**Question 16** Divide £140 in the ratio 3 : 11
Question 17 Decrease £5480 by 10%	**Question 18** Decrease £4600 by 20%	**Question 19** Simplify $(2xy^2)^4$	**Question 20** Simplify $(2xz)^2$

SKILLS CHECK

Score

Question 1 Expand and simplify (x + 2)(x - 4)	**Question 2** Expand and simplify (x - 3)(x + 4)	**Question 3** Work out 1296×10^4	**Question 4** Work out $232.3 \div 10^2$
Question 5 Distance = 165 km, Time = 1 hour 15 minutes , speed = ? km/h	**Question 6** Distance = 13 km, Time = 15 minutes , speed = ? km/h	**Question 7** Work out $2\frac{2}{3} \times \frac{1}{2}$	**Question 8** Work out $2\frac{1}{6} \times 1\frac{1}{3}$
Question 9 Express 168 as a product of prime factors	**Question 10** Express 80 as a product of prime factors	**Question 11** Solve $\frac{3x+1}{2} = x + 1$	**Question 12** Solve $\frac{2x+5}{4} = x + 1$
Question 13 List the first 4 terms of a Geometric sequence with a first term of 3 and a common ratio of 6	**Question 14** List the first 4 terms of a Geometric sequence with a first term of 3 and a common ratio of 3	**Question 15** Divide £88 in the ratio 5 : 3	**Question 16** Divide £144 in the ratio 11 : 5
Question 17 Decrease £7200 by 5%	**Question 18** Increase £2700 by 20%	**Question 19** Simplify $(2x^2y^4)^3$	**Question 20** Simplify $(2xy^5)^2$

SKILLS CHECK

Score

Question 1 Expand and simplify (x + 4)(x - 6)	**Question 2** Expand and simplify (x - 3)(x + 3)	**Question 3** Work out 80.5×10^4	**Question 4** Work out $248.2 \div 10^2$
Question 5 Distance = 20 km, Time = 10 minutes , speed = ? km/h	**Question 6** Distance = 8 km, Time = 30 minutes , speed = ? km/h	**Question 7** Work out $1\frac{1}{6} \times \frac{1}{4}$	**Question 8** Work out $3\frac{3}{5} \times 2\frac{1}{3}$
Question 9 Express 216 as a product of prime factors	**Question 10** Express 165 as a product of prime factors	**Question 11** Solve $\frac{3x-12}{4} = x - 2$	**Question 12** Solve $\frac{2x+28}{6} = x + 2$
Question 13 List the first 4 terms of a Geometric sequence with a first term of 1 and a common ratio of 3	**Question 14** List the first 4 terms of a Geometric sequence with a first term of 2 and a common ratio of 2	**Question 15** Divide £180 in the ratio 7 : 11	**Question 16** Divide £48 in the ratio 5 : 11
Question 17 Decrease £7200 by 5%	**Question 18** Increase £2920 by 10%	**Question 19** Simplify $(2x^3y^3)^2$	**Question 20** Simplify $(4x^2z^3)^4$

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