Question 1 Expand and simplify 5(3x - 5) + 2(3x + 2) 21x - 21	**Question 2** Expand and simplify 4(2x - 4) - 3(2x + 3) 2x -25	**Question 3** Solve 5(5x - 6) = -67.5 x = -1.5	**Question 4** Solve 4(3x + 5) = 2 x = -1.5
Question 5 Work out 21 × £9.40 £197.40	**Question 6** Work out £798 ÷ 14 £57.00	**Question 7** Express 20 as a product of prime factors $2^2 \times 5$	**Question 8** Express 120 as a product of prime factors $2^3 \times 3 \times 5$
Question 9 Find the nth term: 8, 18, 38, 48,... 10n - 2	**Question 10** If the nth term of a sequence is 12n - 6 what is the 8th term? 90	**Question 11** Find 60% of £980 £588	**Question 12** Find 80% of £120 £96
Question 13 Complete 0.13 l ...... 350 ml (< = or >) <	**Question 14** Complete 0.3 l ...... 380 ml (< = or >) <	**Question 15** Work out the value of 19 - a when a = 3 16	**Question 16** Work out the value of c ÷ 8 when c = 56 7
Question 17 Work out 0.07 × 0.5 = 0.035	**Question 18** Work out 0.7 × 0.5 = 0.35	**Question 19** Simplify 100 mm : 110 cm 1 : 11	**Question 20** Simplify 1.1 kg : 2200 g 1 : 2

Question 1 Expand and simplify $4(2x + 4) + 2(3x - 5)$ $14x + 6$	**Question 2** Expand and simplify $3(3x + 4) + 2(5x - 3)$ $19x + 6$	**Question 3** Solve $5(5x + 6) = 5$ $x = -1$	**Question 4** Solve $5(3x - 4) = -80$ $x = -4$
Question 5 Work out $32 \times £29.70$ £950.40	**Question 6** Work out $£1240 \div 16$ £77.50	**Question 7** Express 165 as a product of prime factors $3 \times 5 \times 11$	**Question 8** Express 336 as a product of prime factors $2^4 \times 3 \times 7$
Question 9 Find the nth term: 11, 23, 47, 59,... $12n - 1$	**Question 10** If the nth term of a sequence is $5n + 2$ what is the 8th term? 42	**Question 11** Find 60% of £820 £492	**Question 12** Find 55% of £300 £165
Question 13 Complete 60 mm ...... 5.5 cm ($< = $ or $>$) $>$	**Question 14** Complete 0.4 l ...... 120 ml ($< = $ or $>$) $>$	**Question 15** Work out the value of $22 - 2x$ when $x = 8$ 6	**Question 16** Work out the value of $2b$ when $b = 6$ 12
Question 17 Work out $0.8 \times 0.06 =$ 0.048	**Question 18** Work out $0.09 \times 1 =$ 0.09	**Question 19** Simplify 0.9 kg : 3300 g 3 : 11	**Question 20** Simplify 11 kg : 7000 g 11 : 7

Question 1 Expand and simplify $2(2x + 3) + 4(5x + 3)$ $$24x + 18$$	**Question 2** Expand and simplify $4(2x + 4) + 5(4x + 3)$ $$28x + 31$$	**Question 3** Solve $4(5x + 2) = 128$ $$x = 6$$	**Question 4** Solve $5(7x + 3) = -125$ $$x = -4$$
Question 5 Work out $21 \times £45.70$ $$£959.70$$	**Question 6** Work out $£210 \div 12$ $$£17.50$$	**Question 7** Express 144 as a product of prime factors $$2^4 \times 3^2$$	**Question 8** Express 72 as a product of prime factors $$2^3 \times 3^2$$
Question 9 Find the nth term: 6, 9, 15, 18,… $$3n + 3$$	**Question 10** If the nth term of a sequence is $3n - 4$ what is the 10th term? $$26$$	**Question 11** Find 15% of £800 $$£120$$	**Question 12** Find 40% of £720 $$£288$$
Question 13 Complete 2.73 kg …… 2130 g (< = or >) $$>$$	**Question 14** Complete 3980 m …… 1.08 km (< = or >) $$>$$	**Question 15** Work out the value of $5b - 9$ when $b = 2$ $$1$$	**Question 16** Work out the value of $23 - 2a$ when $a = 7$ $$9$$
Question 17 Work out $0.11 \times 1 =$ $$0.11$$	**Question 18** Work out $0.06 \times 0.5 =$ $$0.03$$	**Question 19** Simplify 12.6 kg : 5400 g $$7 : 3$$	**Question 20** Simplify 990 mm : 45 cm $$11 : 5$$

Question 1 Expand and simplify $2(2x - 3) + 2(3x + 4)$ $10x + 2$	**Question 2** Expand and simplify $3(2x + 3) + 3(3x - 2)$ $15x + 3$	**Question 3** Solve $4(6x - 3) = 24$ $x = 1.5$	**Question 4** Solve $3(3x + 5) = 69$ $x = 6$
Question 5 Work out $35 \times £36.50$ £1277.50	**Question 6** Work out $£1368 \div 18$ £76.00	**Question 7** Express 252 as a product of prime factors $2^2 \times 3^2 \times 7$	**Question 8** Express 120 as a product of prime factors $2^3 \times 3 \times 5$
Question 9 Find the nth term: 6, 14, 30, 38,... $8n - 2$	**Question 10** If the nth term of a sequence is $9n + 5$ what is the 8th term? 77	**Question 11** Find 70% of £860 £602	**Question 12** Find 80% of £140 £112
Question 13 Complete 2.2 m ...... 300 cm ($<$ = or $>$) $<$	**Question 14** Complete 2 kg ...... 2420 g ($<$ = or $>$) $<$	**Question 15** Work out the value of $5b - 4$ when $\quad b = 7$ 31	**Question 16** Work out the value of $22 - 2y$ when $\quad\quad y = 10$ 2
Question 17 Work out $\quad 0.06 \times 0.8 =$ 0.048	**Question 18** Work out $\quad 0.8 \times 0.05 =$ 0.04	**Question 19** Simplify $\quad 3.3$ kg : 5500 g $3 : 5$	**Question 20** Simplify $\quad 30$ mm : 21 cm $1 : 7$

Question 1 Expand and simplify $4(2x - 4) + 4(5x + 2)$ $28x - 8$	**Question 2** Expand and simplify $2(3x - 2) - 5(3x + 2)$ $-9x - 14$	**Question 3** Solve $4(5x + 6) = 64$ $x = 2$	**Question 4** Solve $2(7x + 4) = -48$ $x = -4$
Question 5 Work out $18 \times £17.10$ £307.80	**Question 6** Work out $£352 \div 22$ £16.00	**Question 7** Express 540 as a product of prime factors $2^2 \times 3^3 \times 5$	**Question 8** Express 56 as a product of prime factors $2^3 \times 7$
Question 9 Find the nth term: 4, 13, 31, 40,... $9n - 5$	**Question 10** If the nth term of a sequence is $12n - 3$ what is the 9th term? 105	**Question 11** Find 40% of £240 £96	**Question 12** Find 55% of £540 £297
Question 13 Complete 2190 ml ...... 1.48 l $(< = \text{or} >)$ $>$	**Question 14** Complete 1760 m ...... 1.59 km $(< = \text{or} >)$ $>$	**Question 15** Work out the value of $21 - a$ when $a = 1$ 20	**Question 16** Work out the value of $24 - 2a$ when $a = 10$ 4
Question 17 Work out $0.4 \times 0.5 =$ 0.2	**Question 18** Work out $0.9 \times 0.2 =$ 0.18	**Question 19** Simplify 160 mm : 56 cm 2 : 7	**Question 20** Simplify 7 kg : 4200 g 5 : 3

Question 1 Expand and simplify $5(2x - 5) + 5(5x - 3)$ $35x - 40$	**Question 2** Expand and simplify $2(3x - 2) - 2(3x + 5)$ $- 14$	**Question 3** Solve $2(3x + 4) = 2$ $x = -1$	**Question 4** Solve $5(7x + 5) = 235$ $x = 6$
Question 5 Work out $32 \times £29.40$ $£940.80$	**Question 6** Work out $£1239 \div 21$ $£59.00$	**Question 7** Express 360 as a product of prime factors $2^3 \times 3^2 \times 5$	**Question 8** Express 80 as a product of prime factors $2^4 \times 5$
Question 9 Find the nth term: 14, 25, 47, 58,... $11n + 3$	**Question 10** If the nth term of a sequence is $9n + 6$ what is the 7th term? 69	**Question 11** Find 20% of £820 $£164$	**Question 12** Find 45% of £920 $£414$
Question 13 Complete 200 cm ...... 2.6 m ($<$ = or $>$) $<$	**Question 14** Complete 0.18 l ...... 240 ml ($<$ = or $>$) $<$	**Question 15** Work out the value of $20 - 2a$ when $\quad a = 3$ 14	**Question 16** Work out the value of $2a - 6$ when $\quad\quad a = 9$ 12
Question 17 Work out $\quad 0.12 \times 1.1 =$ 0.132	**Question 18** Work out $\quad 0.11 \times 1.2 =$ 0.132	**Question 19** Simplify $\quad$ 50 mm : 25 cm $1 : 5$	**Question 20** Simplify $\quad$ 120 mm : 6 cm $2 : 1$

Question 1	Question 2	Question 3	Question 4
Expand and simplify $5(3x - 5) + 4(6x + 5)$	Expand and simplify $2(2x - 3) - 5(5x + 4)$	Solve $5(4x - 5) = 75$	Solve $4(3x - 4) = 14$
39x - 5	**-21x - 26**	**x = 5**	**x = 2.5**
Question 5	Question 6	Question 7	Question 8
Work out $28 \times £22.10$	Work out $£1224 \div 18$	Express 216 as a product of prime factors	Express 1120 as a product of prime factors
£618.80	**£68.00**	$2^3 \times 3^3$	$2^5 \times 5 \times 7$
Question 9	Question 10	Question 11	Question 12
Find the nth term: -3, -1, 3, 5,...	If the nth term of a sequence is $6n - 2$ what is the 5th term?	Find 95% of £220	Find 40% of £520
2n - 5	**28**	**£209**	**£208**
Question 13	Question 14	Question 15	Question 16
Complete 330 cm ...... 2 m ($<$ = or $>$)	Complete 1.59 kg ...... 2960 g ($<$ = or $>$)	Work out the value of $29 - 4c$ when $c = 9$	Work out the value of $y - 3$ when $y = 9$
>	**<**	**-7**	**6**
Question 17	Question 18	Question 19	Question 20
Work out $1.2 \times 0.2 =$	Work out $0.04 \times 1.2 =$	Simplify 3.5 kg : 4900 g	Simplify 180 mm : 66 cm
0.24	**0.048**	**5 : 7**	**3 : 11**