Question 1	Question 2	Question 3	Question 4
Simplify V224 + 2V14	Simplify v896 + 6v14	Find the coordinates of the vertex of the graph of $y = x^2 + 12x + 36$	Find the coordinates of the vertex of the graph of $y = x^2 - 6x$
Question 5 Use the formula v = u + at to find a when v = -4, u = 16 and t = 10	Question 6 Use the formula $v^2 = u^2 + 2as$ to find s when $v = 4$, $u = 2$ and $a = 1$	Question 7 Expand and simplify $(x + 2)(x + 3)(x + 1)$	Question 8 Expand and simplify (x - 1)(x + 2)(x - 3)
Question 9 Write down the exact value of tan 45°	Question 10 Write down the exact value of sin 30°	Question 11 A block has a mass of 480g and a volume of 80 cm ³ . Calculate the density.	Question 12 A pressure of 10 N/m² results from a force of 140 N acting over an area x. Find x
Question 13 If $f(x) = 19 - x$ find the value of $f(0.5)$	Question 14 If $f(x) = 30 - 4x$ find the value of $f(4)$	Question 15 If the nth term of a sequence is $\frac{3n+2}{7n}$ what is the 7th term?	Question 16 If the nth term of a sequence is $\frac{7n}{9n+5}$ what is the 8th term?
Question 17 Work out $8 \times 10^3 \times 8 \times 10^5$	Question 18 Work out $(1.8 \times 10^8) \div (3 \times 10^3)$	Question 19 Solve simultaneously $6x + 6y = 60$ and $4x + 2y = 30$	Question 20 Solve simultaneously $4x + 6y = 24$ and $2x + 2y = 10$

Question 1	Question 2	Question 3	Question 4
Simplify V686 + 4V14	Simplify V150 + 4V6	Find the coordinates of the vertex of the graph of $y = x^2 - 6x + 16$	Find the coordinates of the vertex of the graph of $y = x^2 + 4x + 5$
Question 5	Question 6	Question 7	Question 8
Use the formula $v = u + at$ to find a when $v = 50$, $u = 14$ and $t = 12$	Use the formula $v^2 = u^2 + 2as$ to find v when $u = 10$, $a = -2$ and $s = 24$	Expand and simplify (x - 2)(x + 3)(x - 1)	Expand and simplify $(x + 2)(x + 2)(x + 4)$
Question 9	Question 10	Question 11	Question 12
Write down the exact value of tan 0°	Write down the exact value of tan 60°	A block has a volume of 8 cm ³ and a density of 90 g/cm ³ . Calculate the mass.	A force of 117 N acts over an area of 13 m ² . What is the pressure?
Question 13	Question 14	Question 15	Question 16
If $f(x) = 20 + 3x^2$ find the value of $f(1)$	If $f(x) = 26 - 4x$ find the value of $f(2)$	If the nth term of a sequence is $\frac{5n}{9n-1}$ what is the 12th term?	If the nth term of a sequence is $\frac{4n}{7n}$ what is the 9th term?
Question 17	Question 18	Question 19	Question 20
Work out $8 \times 10^2 \times 6 \times 10^3$	Work out $(1.2 \times 10^7) \div (6 \times 10^5)$	Solve simultaneously $5x - 4y = 2$ and $3x - 4y = -2$	Solve simultaneously $x + y = 7$ and $3x - y = 9$

Question 1	Question 2	Question 3	Question 4
Simplify √250 + 6√10	Simplify √486 + 5√6	Find the coordinates of the vertex of	Find the coordinates of the vertex of
		the graph of $y = x^2 + 18x + 70$	the graph of $y = x^2 - 10x + 30$
Question 5	Question 6	Question 7	Question 8
Use the formula v = u + at to find v	Use the formula $v^2 = u^2 + 2as$ to find	Expand and simplify	Expand and simplify
when u = 12, a = 0.5 and t = 2	a when $u = 5$, $v = 10$ and $s = 5$	(x + 1)(x + 2)(x + 2)	(x-2)(x-3)(x+2)
,	,		
Question 9	Question 10	Question 11	Question 12
Write down the exact value of sin 90°	Write down the exact value of	A block has a mass of 800g and a	A pressure of 3 N/m ² results from a
Write down the exact value of sin 50	cos 30°	density of 100 g/cm ³ . Calculate the	force of 30 N acting over an area x.
	603 30	volume.	Find x
		volume.	Tilla X
Question 13	Question 14	Question 15	Question 16
If $f(x) = 22 - x$ find the value of $f(-2)$	If $f(x) = 21 - 2x$ find the value of $f(-4)$	If the nth term of a sequence is $3n$	If the nth term of a sequence is $\frac{5n}{2}$
		what is the 7th term?	what is the 8th term? $7n+3$
		12n+1 what is the 7th term:	what is the oth term!
Question 17	Question 18	Question 19	Question 20
Work out $6 \times 10^2 \times 4 \times 10^2$	Work out $(3.6 \times 10^4) \div (6 \times 10)$	Solve simultaneously $x + y = 9$ and $4x$	Solve simultaneously 3x - 4y = -5 and
		+ 5y = 40	4x - 6y = -10

Question 1	Question 2	Question 3	Question 4
Simplify √192 + 8√3	Simplify √72 + 5√2	Find the coordinates of the vertex of the graph of $y = x^2 + 4x + 12$	Find the coordinates of the vertex of the graph of $y = x^2 + 2x + 6$
Question 5 Use the formula $v = u + at$ to find u when $v = -26$, $a = -5$ and $t = 6$	Question 6 Use the formula $v^2 = u^2 + 2as$ to find v when $u = 8$, $a = 4$ and $s = 10$	Question 7 Expand and simplify $(x + 2)(x + 2)(x + 4)$	Question 8 Expand and simplify $(x-2)(x+3)(x+4)$
Question 9 Write down the exact value of sin 45°	Question 10 Write down the exact value of sin 0°	Question 11 A block has a mass of 360g and a density of 60 g/cm ³ . Calculate the volume.	Question 12 A pressure of 5 N/m ² results from a force of 50 N acting over an area x. Find x
Question 13 If $f(x) = 3x + 7$ find the value of $f(1)$	Question 14 If $f(x) = 25 + 2x^2$ find the value of $f(-2)$	Question 15 If the nth term of a sequence is $\frac{3n+1}{2n+1}$ what is the 10th term?	Question 16 If the nth term of a sequence is $\frac{7n-2}{7n}$ what is the 6th term?
Question 17 Work out $6 \times 10^4 \times 6 \times 10$	Question 18 Work out $(1.6 \times 10^9) \div (2 \times 10^3)$	Question 19 Solve simultaneously $x + y = 5$ and $2x + 3y = 13$	Question 20 Solve simultaneously $4x + 5y = 36$ and $4x + 2y = 24$

Question 1	Question 2	Question 3	Question 4
Simplify √891 + 9√11	Simplify v48 + 7v3	Find the coordinates of the vertex of	Find the coordinates of the vertex of
		the graph of $y = x^2 + 14x + 45$	the graph of $y = x^2 + 12x + 44$
Question 5	Question 6	Question 7	Question 8
Use the formula v = u + at to find v	Use the formula $v^2 = u^2 + 2as$ to find	Expand and simplify	Expand and simplify
when $u = 4$, $a = -3$ and $t = 8$	a when $u = 10$, $v = 2$ and $s = 6$	(x + 1)(x + 2)(x - 1)	(x + 2)(x + 2)(x + 3)
when a 4, a 3 and c 5	a when a 10, v 2 and 3 0	(X · 1)(X · 2)(X · 1)	(X · 2)(X · 2)(X · 3
Question 9	Question 10	Question 11	Question 12
Write down the exact value of	Write down the exact value of	A block has a mass of 140g and a	Find the force applied over an area of
tan 45°	cos 90°	volume of 70 cm ³ . Calculate the	14 m ² that is needed to result in a
		density.	pressure of 8 N/m ²
Question 13	Question 14	Question 15	Question 16
If $f(x) = 29 - 3x$ find the value of $f(2)$	If $f(x) = 28 - x$ find the value of $f(2)$	If the nth term of a sequence is	n^2
		6n	If the nth term of a sequence is $\frac{n}{n+1}$
		$\frac{6n}{10n-5}$ what is the 8th term?	what is the 6th term?
Question 17	Question 18	Question 19	Question 20
Work out $5 \times 10^5 \times 8 \times 10^3$	Work out $(7.2 \times 10^6) \div (8 \times 10^3)$	Solve simultaneously $x + y = 2$ and	Solve simultaneously 6x - 6y = 18 and
3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3		2x + 3y = 9	3x + 2y = 19
			,

Question 1	Question 2	Question 3	Question 4
Simplify √1134 + 2√14	Simplify √112 + 3√7	Find the coordinates of the vertex of the graph of $y = x^2 + 20x + 96$	Find the coordinates of the vertex of the graph of $y = x^2 + 6x + 1$
Question 5 Use the formula v = u + at to find u when v = 28, a = 7 and t = 2	Question 6 Use the formula $v^2 = u^2 + 2as$ to find a when $u = 2$, $v = 12$ and $s = 10$	Question 7 Expand and simplify $(x + 2)(x + 2)(x + 1)$	Question 8 Expand and simplify $(x-2)(x+3)(x+1)$
Question 9 Write down the exact value of sin 60°	Question 10 Write down the exact value of sin 45°	Question 11 A block has a mass of 140g and a density of 70 g/cm ³ . Calculate the volume.	Question 12 A force of 63 N acts over an area of 7 m ² . What is the pressure?
Question 13 If $f(x) = 28 + 4x^2$ find the value of $f(-5)$	Question 14 If $f(x) = 27 + 3x^2$ find the value of $f(4)$	Question 15 If the nth term of a sequence is $\frac{n-1}{n+1}$ what is the 11th term?	Question 16 If the nth term of a sequence is $\frac{n+1}{3n}$ what is the 10th term?
Question 17 Work out $7 \times 10^3 \times 3 \times 10^4$	Question 18 Work out $(8 \times 10^6) \div (4 \times 10^4)$	Question 19 Solve simultaneously $x + y = 10$ and $2x + 5y = 35$	Question 20 Solve simultaneously $4x - 3y = 11$ and $4x + 3y = 29$

Question 1	Question 2	Question 3	Question 4
Simplify V45 + 6V5	Simplify V250 + 7V10	Find the coordinates of the vertex of the graph of $y = x^2 + 6x + 8$	Find the coordinates of the vertex of the graph of $y = x^2 - 2x + 7$
Question 5	Question 6	Question 7	Question 8
Use the formula v = u + at to find u when v = 52, a = 6 and t = 6	Use the formula $v^2 = u^2 + 2as$ to find a when $u = 12$, $v = 2$ and $s = 5$	Expand and simplify (x + 2)(x + 3)(x + 1)	Expand and simplify $(x-2)(x-3)(x+4)$
Question 9	Question 10	Question 11	Question 12
Write down the exact value of	Write down the exact value of	A block has a mass of 120g and a	Find the force applied over an area of
cos 90°	cos 45°	density of 30 g/cm ³ . Calculate the volume.	2 m ² that is needed to result in a pressure of 8 N/m2
Question 13	Question 14	Question 15	Question 16
If $f(x) = 21 - 3x$ find the value of $f(2)$	If $f(x) = 28 - x$ find the value of $f(-3)$	If the nth term of a sequence is $\frac{2n-1}{n+1}$	If the nth term of a sequence is $\frac{n}{n+1}$
		what is the 8th term?	what is the 6th term?
Question 17	Question 18	Question 19	Question 20
Work out 8 × 10 ³ × 2 × 10 ²	Work out (1.6 × 10 ⁸) ÷ (4 × 10 ²)	Solve simultaneously $4x - 5y = -7$ and $3x - 2y = 0$	Solve simultaneously $x + y = 6$ and $6x + 2y = 28$