	T	T	паат.1
Question 1 Simplify √891	Simplify √176	A car bought for £36000 depreciates in value by 8% each year. Write down a formula for the value of the car v,	Question 4 £6000 is invested with an interest rate of 6% per annum. Write a formula for the value of the investment v, after t years
9√11	4√11	$v = 36000 \times 0.92^{t}$	$v = 6000 \times 1.06^{t}$
	Question 6		Question 8
find u when s = 360, v = 20 and	Use the formula $s = \frac{1}{2} (u + v)t$ to find s when $u = 16$, $v = 16$ and $t = 90$	Evaluate $32^{\frac{2}{5}}$	Evaluate $27^{\frac{2}{3}}$
u = 4	s = 1440	4	9
volume of 80 cm ³ . Calculate the	P	Question 11 Find the nth term of 1, 7, 17, 31,	Question 12 Find the nth term of 1, 4, 9, 16,
10 g/cm ³	4 cm ³	2n ² - 1	n ²
Question 13 Sketch the curve $v = x^2$	Sketch the curve y = sin x	Question 15 Find the equation of the line with gradient 4 passing through (-1, -6) $y = 4x - 2$	[] [[[[[[[[[[[[[[[[[[
	Work out $4.2 \times 10^5 + 5.7 \times 10^4$	Express $x^2 + 10x + 30$ in completed	Question 20 Express x^2 - 4x + 7 in completed square form
4	.]	$(x + 5)^2 + 5$	$(x-2)^2+3$

Constanting and the constant of the constant o	A Constitution of Application (Constitution Constitution	E. vers en apro-traes	паат.2
Question 1	Question 2	Question 3	Question 4
Simplify v486	Simplify v350	A car bought for £31000	A car bought for £34000
		depreciates in value by 2% each	depreciates in value by 3% each
		i.	year. Write down a formula for the
		value of the car v, after t years	value of the car v, after t years
9√6	5√14	$v = 31000 \times 0.98^{t}$	$v = 34000 \times 0.97^{1}$
Question 5	Question 6	Question 7	Question 8
Use the formula s = ½(u + v)t to	Use the formula $s = \frac{1}{2}(u + v)t$ to	Evaluate 70	Evaluate 125 =
find s when u = 18, v = 14 and t = 100	find u when s = 1170, v = 8 and t = 90		123*
s = 1600	u = 18	1	5
Question 9	Question 10	Question 11	Question 12
A block has a mass of 200g and a	A block has a mass of 90g and a	Find the nth term of	Find the nth term of
density of 100 g/cm ³ . Calculate the volume.	density of 60 g/cm ³ . Calculate the volume.	5, 16, 33, 56,	2, 10, 24, 44,
2 cm ³	1.5 cm3	$3n^2 + 2n$	3n ² - n
Question 13	Question 14	Question 15	Question 16
Sketch the curve $y = x^3$	Sketch the curve y = cos x	Find the equation of the line with	Find the equation of the line with
20 10	\wedge	gradient 2 passing through (1, 6)	gradient 2 passing through (3, 16)
2 -10 2 4 -20 2 4	180 380 X	y = 2x + 4	y = 2x + 10
Question 17	Question 18	Question 19	Question 20
Work out $5.3 \times 10^4 + 4.8 \times 10^3$	Work out $2.5 \times 10^5 - 6.3 \times 10^4$	Express $x^2 + 2x + 2$ in completed square form	Express $x^2 + 4x + 3$ in completed square form
57800	187000	$(x+1)^2+1$	$(x + 2)^2 - 1$

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			HAA1.3
Question 1	Question 2	Question 3	Question 4
Simplify √486	Simplify √1134	£9000 is invested with an interest	£9000 is invested with an interest
N-011 see	5951II 30d	rate of 6.5% per annum. Write a	rate of 7.5% per annum. Write a
		formula for the value of the	formula for the value of the
		investment v, after t years	investment v, after t years
2 20 20 20 20 20 20 20 20 20 20 20 20 20	707		2011 2013 101 101 101 101 101 101 101 101 101
9√6	9√14	$v = 9000 \times 1.065^{t}$	$v = 9000 \times 1.075^{t}$
Question 5	Question 6	Question 7	Question 8
Use the formula s = ½ (u + v)t to	Use the formula $s = \frac{1}{2}(u + v)t$ to	Evaluate 3	Evaluate 5
The state of the s	find s when u = 20, v = 10 and t = 70	92	$16\overline{4}$
v = 12	s = 1050	27	32
Question 9	Question 10	Question 11	Question 12
A block has a volume of 60cm ³	A block has a mass of 100g and a	Find the nth term of 2, 8, 18, 32,	Find the nth term of 1, 7, 17, 31,
and a density of 40 g/cm ³ .	volume of 20 cm ³ . Calculate the		
	density.		
A CONTRACTOR OF THE PROPERTY O	. 3	3	2
240 g	5 g/cm ³	2n ²	2n ² - 1
130 (10 C 10	Question 14	Question 15	Question 16
Sketch the curve $y = -x^2$	Sketch the curve $y = 2x - 4$	Find the equation of the line with	Find the equation of the line with
5 ^y	[] [x] []	gradient 5 passing through (2, 13)	gradient 4 passing through (-1 , 1)
4 ·2 ·5 4 x	3 -2 -1 -2 3	y = 5x + 3	y = 4x + 5
Question 17	Question 18	Question 19	Question 20
	Work out $5.2 \times 10^4 + 2.4 \times 10^3$	Express $x^2 + 6x + 10$ in completed	Express x^2 - 4x + 13 in completed
No, Nout 5,12 15 5,5 15	Noncouron 2000 Paris 100	square form	square form
47200	54400	$(x+3)^2+1$	$(x-2)^2 + $

j		- II.	11001.4
Question 1	Question 2	Question 3	Question 4
Simplify √192	Simplify √125	£4000 is invested with an interest	£5000 is invested with an interest
		rate of 7% per annum. Write a	rate of 9% per annum. Write a
		formula for the value of the	formula for the value of the
		investment v, after t years	investment v, after t years
8√3	5√5	$v = 4000 \times 1.07^{t}$	$v = 5000 \times 1.09^{t}$
Question 5	Question 6	Question 7	Question 8
Use the formula s = ½(u + v)t to	Use the formula $s = \frac{1}{2}(u + v)t$ to	Evaluate3	Evaluate 5
find v when s = 1520, v = 18 and t = 80	find s when u = 2, v = 20 and t = 30	Evaluate $36^{-\frac{3}{2}}$	$4\overline{2}$
v = 18	s = 330	$\frac{1}{216}$	32
Question 9	Question 10	Question 11	Question 12
A block has a mass of 780g and a	A block has a mass of 100g and a	Find the nth term of 0, 2, 6, 12,	Find the nth term of -2, -2, 0, 4,
volume of 60 cm ³ . Calculate the density.	volume of 50 cm ³ . Calculate the density.		
13 g/cm ³	2 g/cm ³	n² - n	n² - 3n
Question 13	Question 14	Question 15	Question 16
Sketch the curve $y = \frac{1}{x^2}$	Performance and the company of the c	Find the equation of the line with	
13T	3,	gradient -3 passing through (2 , -5)	gradient -3 passing through (-2 , 9)
2-	3 -2 -14 1 2 3	y = 1 - 3x	y = 3 - 3x
Question 17 3 2 1 1 2 3	Question 18	Question 19	Question 20
	Work out $4.8 \times 10^{3} + 8.6 \times 10^{4}$	Express x ² - 2x - 4 in completed square form	Express $x^2 + 6x + 3$ in completed square form
220000	566000	$(x-1)^2-5$	$(x + 3)^2 - 6$

			HAA1.5
Question 1	Question 2	Question 3	Question 4
Simplify √405	Simplify √704	£10000 is invested with an interest	A car bought for £46000
180 %	540 88	rate of 3% per annum. Write a	depreciates in value by 7% each
		formula for the value of the	year. Write down a formula for the
		investment v, after t years	value of the car v, after t years
9√5	8√11	$v = 10000 \times 1.03^{t}$	$v = 46000 \times 0.93^{t}$
Question 5	Question 6	Question 7	Question 8
Use the formula $s = \frac{1}{2}(u + v)t$ to	Use the formula $s = \frac{1}{2}(u + v)t$ to	Evaluate 3	Evaluate $\frac{3}{4}$
find u when s = 280, v = 20 and	find u when s = 800, v = 12 and	Evaluate $\frac{3}{4^2}$	814
t = 20	t = 80		
u = 8	u = 8	1 8	27
Question 9	Ouestion 10	Question 11	Question 12
A block has a mass of 700g and a	A block has a volume of 80cm ³	Find the nth term of 0, 6, 18, 36,	
density of 7 g/cm ³ . Calculate the	and a density of 2.5 g/cm ³ .		5, 14, 27, 44,
volume.	Calculate the mass		
100 2	200 -	3n ² - 3n	$2n^2 + 3n$
100 cm3	200 g	3n3n	2n- + 3n
Question 13	Question 14	Question 15	Question 16
Sketch the curve y = sin x	Sketch the curve y = -x ³	Find the equation of the line with	Find the equation of the line with
y	10 9	gradient 3 passing through (1,8)	gradient 5 passing through (-2 , -7)
	5-	The second secon	
120 200	9 2 1 2 3	y = 3x + 5	y = 5x + 3
Question 17	Question 18	Question 19	Question 20
Work out $5.2 \times 10^4 + 4.2 \times 10^3$	Work out $2.1 \times 10^4 - 6.9 \times 10^3$	The state of the s	Express $x^2 + 4x - 4$ in completed
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			square form
		No.	1000 1000 000 000 10 70 70 70 70 10 10 10 10 10 10 10 10 10 10 10 10 10
F6200	14100	$(x + 4)^2 + 10$	(v 1 2)2 0
56200	14100	(x + 4) + 10	$(x + 2)^2 - 2$

Question 1	Question 2	Question 3	HAA1.6
Simplify v80	Simplify V45	A car bought for £28000 depreciates	£7000 is invested with an interest rate of 9% per annum. Write a formula for the value of the investment v, after t years
4√5	3√5	$v = 28000 \times 0.99^{t}$	$v = 7000 \times 1.09^{t}$
Question 5 Use the formula $s = \frac{1}{2}(u + v)t$ to find t when $u = 2$, $v = 12$ and $s = 490$	Question 6 Use the formula $s = \frac{1}{2}(u + v)t$ to find v when $s = 120$, $v = 4$ and $t = 10$	Question 7 Evaluate $27^{-\frac{4}{3}}$	Question 8 Evaluate $-125^{\frac{1}{3}}$
t = 70	v = 4	1 81	-5
Question 9 A block has a mass of 720g and a volume of 90 cm ³ . Calculate the density.	Question 10 A block has a mass of 840g and a volume of 70 cm ³ . Calculate the density.	Question 11 Find the nth term of 0, 4, 12, 24,	Question 12 Find the nth term of 5, 14, 27, 44,
8 g/cm ³	12 g/cm ³	2n ² - 2n	$2n^2 + 3n$
Question 13 Sketch the curve $y = \cos x$			Question 16 Find the equation of the line with gradient -2 passing through (-3, 4) $y = -2x - 2$
Question 17 Work out $2 \times 10^5 + 9 \times 10^4$	Question 18 Work out $3.9 \times 10^4 - 6.9 \times 10^3$	Question 19 Express x^2 - 6x + 14 in completed square form	Question 20 Express $x^2 + 2x + 5$ in completed square form
290000	32100	$(x-3)^2+5$	$(x + 1)^2 + 4$

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Question 1	Question 2	Question 3	Question 4
Simplify √704	Simplify V448	£8000 is invested with an interest rate of 5.5% per annum. Write a formula for the value of the investment v, after t years	A car bought for £4000 depreciates in value by 4% each year. Write down a formula for the value of the car v, after t years
8√11	8√7	$v = 8000 \times 1.055^{t}$	$v = 4000 \times 0.96^{t}$
Question 5	Question 6	Question 7	Question 8
Use the formula s = 1/2(u + v)t to find v when s = 1350, v = 14 and t = 90	Use the formula $s = 1/2(u + v)t$ to find u when $s = 400$, $v = 4$ and $t = 40$	Evaluate $125^{-\frac{2}{3}}$	Evaluate $\frac{7}{8^3}$
v = 14	u = 16	$\frac{1}{25}$	128
Question 9 A block has a volume of 30cm ³ and a density of 5 g/cm ³ . Calculate the mass.		Question 11 Find the nth term of 0, 2, 6, 12,	Question 12 Find the nth term of 0, 6, 18, 36,
150 g	7 g/cm ³	n ² - n	3n ² - 3n
Question 13	Question 14	Question 15	Question 16
Sketch the curve $y = 3 - x^2$	Sketch the curve $y = -\frac{1}{x}$	Find the equation of the line with gradient -4 passing through (-1 , 3)	Find the equation of the line with gradient 5 passing through (-1 , -6)
2-	4 2 2 4 .	y = -4x - 1	y = 5x - 1
Question 17 Work out $2.6 \times 10^4 - 8.2 \times 10^3$	Question 18 Work out $1.8 \times 10^5 - 7.9 \times 10^4$	Question 19 Express x ² - 10x + 37 in completed square form	Question 20 Express x^2 - 8x + 9 in completed square form
17800	101000	$(x-5)^2+12$	$(x-4)^2-7$