HB2.1

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Question 1	Question 2	Question 3	Question 4
Expand 3x(5x - 5)	Expand and simplify (x - 1)(x - 3)	Factorise 45x - 27	Factorise fully
15x ² - 15x	$x^2 - 4x + 3$	9(5x - 3)	3x(2 + 5x)
Question 5 Find the nth term: 2, 7, 12, 17,	Question 6 If the nth term of a sequence is 7n + 6 what is the 9th term?	Question 7 Divide 10500g in the ratio 3:11	Question 8 Divide 2100ml in the ratio 5 : 2
5n - 3	69	2250g, 8250g	1500 ml, 600 ml
Question 9	Question 10	Question 11	Question 12
Work out 3 ÷ 0.3 =	Work out 1.5 ÷ 0.3 =	Increase £330 by 15%	Increase £140 by 30%
10	5	£379.50	£182
Question 13	Question 14	Question 15	Question 16
Work out	Work out	Work out the value of $2x + 8y$ when $x = 7$ and $y = -4$	Work out the value of $6xp2 + y$ when $x = -6$ and $y = 5$
1 4/5	2 4/5	-18	221
Question 17 The mean of 16, x, 3, 14, 57 is 22. Find x	Question 18 The mean of 4, x, 5, 6, 1 is 5. Find to	Question 19 x x/3 + 10 = x + 2	Question 20 $x/3 + 5 = x - 1$
x = 20	x = 9	x = 12	x = 9

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		Question 4
Expand and simplify (x - 2)(x - 2)	Factorise 30x - 18	Factorise fully
$x^2 - 4x + 4$	6(5x - 3)	$6x(7x^2 + 1)$
Question 6	Question 7	Question 8
If the nth term of a sequence is 5n + 1 what is the 12th term?	Divide £6400 in the ratio 3 : 5	Divide £12600 in the ratio 7 : 11
61	£2400, £4000	£4900, £7700
Question 10	Question 11	Question 12
Work out 1.8 ÷ 0.3 =	Decrease £3680 by 15%	Increase £470 by 30%
6	£3128	£611
Question 14	Question 15	Question 16
Work out	Work out the value of $x + y^2$ when $x = 1$ and $y = 3$	Work out the value of 3x + 5y when x = -5 and y = 5
6 3/4	10	10
Question 18	Question 19	Question 20
Find the median 19, 25, 7, 11, 11	x/2 - 2 = 2x - 11	x/2 - 4 = 3x - 24
11	x = 6	x = 8
	Question 6 If the nth term of a sequence is 5n + 1 what is the 12th term? 61 Question 10 Work out 1.8 ÷ 0.3 = 6 Question 14 Work out 6 3/4 Question 18 Find the median 19, 25, 7, 11, 11	Expand and simplify $(x-2)(x-2)$ Factorise $30x-18$ x^2-4x+4 $6(5x-3)$ Question 6 If the nth term of a sequence is $5n+1$ what is the 12th term? 61 Question 10 Work out $1.8 \div 0.3 =$ 6 Question 14 Work out Question 15 Work out the value of $x+y^2$ when $x=1$ and $y=3$ 6 Question 18 Find the median 19, 25, 7, 11, 11 Question 19 $x/2-2=2x-11$





HB2.3

Question 1	Question 2	Question 3	Question 4
Expand 2x(11x + 7)	Expand and simplify $(x + 4)(x + 2)$	Factorise 27x - 15	Factorise fully
$22x^2 + 14x$	$x^2 + 6x + 8$	3(9x - 5)	$10x^2(3 + 2x)$
Question 5	Question 6	Question 7	Question 8
Find the nth term: 4, 7, 10, 13,	If the nth term of a sequence is 5n - 5 what is the 5th term?	Divide £1600 in the ratio 5:3	Divide £1575 in the ratio 7 : 2
3n + 1	20	£1000, £600	£1225, £350
Question 9	Question 10	Question 11	Question 12
Work out 6.3 ÷ 0.7 =	Work out 10.4 ÷ 0.8 =	Decrease £390 by 10%	Increase £420 by 65%
9	13	£351	£693
Question 13	Question 14	Question 15	Question 16
Work out	Work out	Work out the value of $x + y^2$ when $x = 1$ and $y = -2$	Work out the value of $4x - 8y$ when $x = -2$ and $y = 2$
8 3/14	2 2/3	5	-24
Question 17	Question 18	Question 19	Question 20
The mean of 17, x, 10, 17, 51 is 21 Find x	Find the median 1.2, 1.2, 1.2, 1.5, 1.6, 0.8	x/4 + 4 = x - 5	x/3 + 4 = x - 6
x = 10	1.2	x = 12	x = 15





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Question 1	Question 2	Question 3	Question 4
Expand 6x(2x - 11)	Expand and simplify (x + 5)(x - 6)	Factorise 9x + 3	Factorise fully
12x ² - 66x	x ² - x - 30	3(3x + 1)	$11x(7x^2+3)$
Question 5	Question 6	Question 7	Question 8
Find the nth term: 7, 15, 23, 31,	If the nth term of a sequence is 11n + 6 what is the 11th term?	Divide 3300ml in the ratio 3 : 8	Divide £450 in the ratio 1:2
8n - 1	127	900 ml, 2400 ml	£150, £300
Question 9	Question 10	Question 11	Question 12
Work out 3.2 ÷ 0.4 =	Work out 8 ÷ 0.4 =	Increase £320 by 10%	Decrease £710 by 50%
8	20	£352	£355
Question 13	Question 14	Question 15	Question 16
Work out	Work out	Work out the value of x ² +y	Work out the value of
		when x = 6 and y = 3	when $x = 6$ and $y = 6$ $6x - y^2$
4 20/21	2/3	39	0
Question 17	Question 18	Question 19	Question 20
Find the median 1.8, 1.4, 2.1, 1.9, 1.5, 1.8	The mean of 18, x, 13, 12, 36 is 19. Find x	x/3 + 4 = x - 4	x/3 + 3 = x - 7
1.8	x = 16	x = 12	x = 15





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Question 2	Question 3	Question 4
Expand and simplify (x - 7)(x - 7)	Factorise 32x + 24	Factorise fully
$x^2 - 14x + 49$	8(4x + 3)	5x ³ (7 - 3x)
Ouestion 6	Ouestion 7	Question 8
If the nth term of a sequence is 8n what is the 8th term?	Divide £8400 in the ratio 7 : 5	Divide £24000 in the ratio 3 : 5
64	£4900, £3500	£9000, £15000
Ouestion 10	Ouestion 11	Question 12
Work out 15.3 ÷ 0.9 =	Increase £460 by 5%	Increase £530 by 35%
17	£483	£715.50
Question 14	Question 15	Question 16
Work out	Work out the value of $x + y^2$ when $x = -5$ and $y = 8$	Work out the value of $5x - y^2$ when x = -6 and y = -2
15/28	59	-34
Question 18 The mean of 5, x, 10, 6, 12 is 9.	Question 19 x/4 + 1 = x - 11	Question 20 $x/3 - 2 = 2x - 22$
x = 12	x = 16	x = 12
	Expand and simplify $(x - 7)(x - 7)$ $x^2 - 14x + 49$ Question 6 If the nth term of a sequence is 8n what is the 8th term? 64 Question 10 Work out $15.3 \div 0.9 =$ 17 Question 14 Work out 15/28 Question 18 The mean of 5, x, 10, 6, 12 is 9. Find x	Expand and simplify $(x - 7)(x - 7)$ Factorise $32x + 24$ $x^2 - 14x + 49$ Region 6 If the nth term of a sequence is 8n what is the 8th term? Guestion 7 Divide £8400 in the ratio 7:5 E4900, £3500 Question 10 Work out $15.3 \div 0.9 =$ Question 11 Increase £460 by 5% 17 Question 15 Work out the value of $x + y^2$ when $x = -5$ and $y = 8$ The mean of 5, x, 10, 6, 12 is 9. Find x Factorise $32x + 24$ Question 7 Divide £8400 in the ratio 7:5 Work out the value of $x + y^2$ when $x = -5$ and $y = 8$ Question 15 Question 18 The mean of 5, x, 10, 6, 12 is 9. Find x

			HB2.6
Question 1	Question 2	Question 3	Question 4
Expand 2x(11 - 5x)	Expand and simplify $(x + 4)(x - 4)$	Factorise 14x + 21	Factorise fully
22x - 10x ²	x ² - 16	7(2x + 3)	$10x^3(3+x)$
Question 5	Question 6	Question 7	Question 8
Find the nth term: 3, 12, 21, 30,	If the nth term of a sequence is 9n what is the 6th term?	Divide 3250g in the ratio 3:2	Divide £900 in the ratio 7 : 5
9n - 6	54	1950g, 1300g	£525, £375
Question 9	Question 10	Question 11	Question 12
Work out 3.6 ÷ 0.2 =	Work out 20 ÷ 1 =	Decrease £500 by 10%	Decrease £4470 by 30%
18	20	£450	£3129
Question 13	Question 14	Question 15	Question 16
Work out	Work out	Work out the value of $10 - xy$ when $x = -4$ and $y = 4$	Work out the value of $7x - 5y$ when $x = -3$ and $y = 3$
2	1 7/9	26	-36
Question 17	Question 18	Question 19	Question 20
Find the median 23, 16, 15, 24, 13	The mean of 18, x, 11, 3, 27 is 15. Find x	x/4 - 4 = x - 19	x/2 + 4 = 3x - 21
16	x = 16	x = 20	x = 10





Question 1	Question 2	Question 3	Question 4
Expand 3x(11x + 2)	Expand and simplify $(x + 4)(x - 7)$	Factorise 15x + 10	Factorise fully
Expand Salita : 2)	Expand and simping (x 1 4)(x 7)	actorise 15% i 10	l actorise runy
3			
$33x^2 + 6x$	$x^2 - 3x - 28$	5(3x + 2)	x(x + 5)
Question 5	Question 6	Question 7	Question 8
Find the nth term: 12, 19, 26, 33,	If the nth term of a sequence is 2n + 3 what is the 7th term?	Divide £4500 in the ratio 3 : 7	Divide 2475ml in the ratio 3:8
7n + 5	17	£1350, £3150	675 ml, 1800 ml
Question 9	Question 10	Question 11	Question 12
Work out 3.5 ÷ 0.7 =	Work out 5.6 ÷ 0.7 =	Decrease £4810 by 5%	Decrease £3280 by 75%
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5	8	£4569.50	£820
Question 13	Question 14	Question 15	Question 16
Work out	Work out	Work out the value of $2x + 3y$ when $x = -5$ and $y = -5$	Work out the value of $x^2 + y$ when $x = 7$ and $y = 8$
2	1 3/5	-25	57
Question 17	Question 18	Question 19	Question 20
Find the median 22, 15, 12, 19, 18	Find the median 0.5, 2.1, 1.4, 1.1, 2.4, 1.6	x/3 - 3 = x - 9	x/4 - 2 = x - 8
18	1.5	x = 9	x = 8