Name :

Question 1 Work out $\dfrac{1}{2} - \dfrac{1}{5}$	**Question 2** Work out $\dfrac{1}{3} \times \dfrac{1}{2}$	**Question 3** Estimate $310 \times 24 =$	**Question 4** Estimate $\dfrac{31 + 65}{9.7}$
Question 5 Increase £640 by 35%	**Question 6** Decrease £620 by 35%	**Question 7** Find the nth term: 2, 7, 12, 17,...	**Question 8** Find the nth term: 11, 23, 35, 47,...
Question 9 Solve 15x - 6 = 9	**Question 10** Solve 8x - 5 = 4x + 7	**Question 11** Work out the value of 5y - 6 when y = 9	**Question 12** Work out the value of 21 + 2x when x = -2
Question 13 Expand and simplify 2(3a - 5b) + 4(a + 2b)	**Question 14** Expand and simplify 4(2a + 4b) - 3(a + 3b)	**Question 15** Work out $24 \times 0.52 =$	**Question 16** Work out $294 \div 3 =$
Question 17 Work out 5 + 10 × 3	**Question 18** Work out 4 × (2 + 5) × 4	**Question 19** Work out $\dfrac{4}{11}$ of 77	**Question 20** Work out $\dfrac{9}{13}$ of 182

Question 21
What is a sequence?

Score

Due date	Thursday 18th April 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA5.1

Name :

Question 1 Work out $\dfrac{5}{8} - \dfrac{2}{5}$	Question 2 Work out $\dfrac{1}{8} \div \dfrac{1}{3}$	Question 3 Estimate 928 - 360 =	Question 4 Estimate $\dfrac{8.7 - 5.2}{0.45}$
Question 5 Increase £520 by 35%	Question 6 Decrease £180 by 30%	Question 7 Find the nth term: 0, 3, 6, 9,...	Question 8 Find the nth term: 14, 23, 32, 41,...
Question 9 Solve 13x + 3 = -23	Question 10 Solve 7x - 2 = 6x + 1	Question 11 Work out the value of 2a - 8 when a = 10	Question 12 Work out the value of 21 - 2x when x = -2
Question 13 Expand and simplify 4(a + 3b) + 5(a - 4b)	Question 14 Expand and simplify 3(a + 2b) - 5(a + 2b)	Question 15 Work out 320 × 0.59 =	Question 16 Work out 513 ÷ 3 =
Question 17 Work out 4 × (6 + 2)	Question 18 Work out 5 × 5 + 2	Question 19 Work out $\dfrac{4}{11}$ of 198	Question 20 Work out $\dfrac{3}{7}$ of 119

Question 21
Write down an example of a term

Score [ ]

Due date	Thursday 25th April 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA5.2

Name :

Question 1 Work out $\dfrac{2}{3} - \dfrac{1}{2}$	Question 2 Work out $\dfrac{4}{7} \times \dfrac{2}{3}$	Question 3 Estimate $654 + 36 =$	Question 4 Estimate $\dfrac{0.62 \times 52}{3.1}$
Question 5 Increase £200 by 5%	Question 6 Decrease £580 by 20%	Question 7 Find the nth term: 10, 18, 26, 34,…	Question 8 Find the nth term: 8, 14, 20, 26,…
Question 9 Solve 2x - 5 = 1	Question 10 Solve 6x + 5 = 4x + 13	Question 11 Work out the value of $2y^2$ when y = 4	Question 12 Work out the value of $2x^2$ when x = -3
Question 13 Expand and simplify 3(4a - 5b) + 2(2a - 5b)	Question 14 Expand and simplify 2(2a + 2b) - 3(a + 3b)	Question 15 Work out $23 \times 9.8 =$	Question 16 Work out $1800 \div 20 =$
Question 17 Work out 5 × (5 + 2)	Question 18 Work out 3 × 4 + 5	Question 19 Work out $\dfrac{3}{5}$ of 45	Question 20 Work out $\dfrac{2}{3}$ of 51

Question 21
Write down an example of an expression

Score

Due date	Thursday 2nd May 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA5.3

Name :

Question 1
Work out $\dfrac{2}{3} + \dfrac{1}{2}$

Question 2
Work out $\dfrac{2}{3} \div \dfrac{2}{3}$

Question 3
Estimate $145 \times 20 =$

Question 4
Estimate $\dfrac{32 \times 57}{194}$

Question 5
Increase £380 by 15%

Question 6
Decrease £220 by 40%

Question 7
Find the nth term: 11, 20, 29, 38,...

Question 8
Find the nth term: 4, 8, 12, 16,...

Question 9
Solve $8x + 5 = 9$

Question 10
Solve $3x + 4 = 2x + 9$

Question 11
Work out the value of $9 + 4a^2$ when $a = 8$

Question 12
Work out the value of $10 - 2x$ when $x = -5$

Question 13
Expand and simplify
$3(4a - 5b) + 2(2a - 3b)$

Question 14
Expand and simplify
$2(a + 2b) - 3(2a - 4b)$

Question 15
Work out $190 \times 0.33 =$

Question 16
Work out $774 \div 3 =$

Question 17
Work out $5 \times (11 - 7)$

Question 18
Work out $2 \times 5 - 5$

Question 19
Work out $\dfrac{1}{3}$ of 27

Question 20
Work out $\dfrac{5}{13}$ of 221

Question 21
What are factors?

Score [ ]

Due date	Thursday 9th May 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA5.4

Question 1	Question 2	Question 3	Question 4
Work out $\dfrac{4}{10} - \dfrac{1}{3}$	Work out $\dfrac{3}{4} \div \dfrac{2}{3}$	Estimate 718 - 541 =	Estimate $\dfrac{0.25 \times 63.9}{3.2}$
Question 5	**Question 6**	**Question 7**	**Question 8**
Increase £180 by 10%	Decrease £400 by 30%	Find the nth term: 14, 25, 36, 47,...	Find the nth term: -1, 4, 9, 14,...
Question 9	**Question 10**	**Question 11**	**Question 12**
Solve 2x + 6 = 8	Solve 3x - 4 = 2x + 2	Work out the value of 80 - 2c when c = 5	Work out the value of $x^2 + 2x$ when x = 3
Question 13	**Question 14**	**Question 15**	**Question 16**
Expand and simplify 2(2a - 4b) + 5(3a + 3b)	Expand and simplify 4(3a - 5b) - 2(3a - 5b)	Work out 11 × 4.1 =	Work out 483 ÷ 7 =
Question 17	**Question 18**	**Question 19**	**Question 20**
Work out 7 × (4 + 4)	Work out 4 × (10 + 4^2)	Work out $\dfrac{6}{11}$ of 132	Work out $\dfrac{1}{7}$ of 49

Question 21
What are multiples?

Score

Due date	Thursday 16th May 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA5.5

Name :

Question 1 Work out $\frac{3}{4} - \frac{3}{7}$	**Question 2** Work out $\frac{3}{4} \times \frac{2}{3}$	**Question 3** Estimate 8398 - 4922 =	**Question 4** Estimate $\frac{25 \times 4.52}{0.498}$
Question 5 Increase £600 by 35%	**Question 6** Decrease £540 by 35%	**Question 7** Find the nth term: 0, 5, 10, 15,...	**Question 8** Find the nth term: 5, 9, 13, 17,...
Question 9 Solve 9x + 3 = -1.5	**Question 10** Solve 7x + 5 = 2x - 5	**Question 11** Work out the value of 58 - 4c when c = 9	**Question 12** Work out the value of $x^2 - x$ when x = -2
Question 13 Expand and simplify 4(4a + 3b) + 3(a - b)	**Question 14** Expand and simplify 3(a + 2b) - 3(a - 4b)	**Question 15** Work out 180 × 6.5 =	**Question 16** Work out 1008 ÷ 18 =
Question 17 Work out 12 × (8 - 3)	**Question 18** Work out 3 × (13 - 3)	**Question 19** Work out $\frac{9}{13}$ of 221	**Question 20** Work out $\frac{11}{13}$ of 260

Question 21
What are common factors?

Score [   ]

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA5.6

Name :   FA5.7

Question 1
Work out $\frac{6}{7} - \frac{1}{4}$

Question 2
Work out $\frac{3}{10} \div \frac{6}{11}$

Question 3
Estimate $7622 - 7069 =$

Question 4
Estimate $\frac{4.55 \times 0.52}{0..105}$

Question 5
Increase £340 by 35%

Question 6
Decrease £260 by 15%

Question 7
Find the nth term: 10, 20, 30, 40,...

Question 8
Find the nth term: 5, 7, 9, 11,...

Question 9
Solve $6x - 4 = 14$

Question 10
Solve $3x - 3 = 2x + 0$

Question 11
Work out the value of $58 - 4c$ when $c = 9$

Question 12
Work out the value of $2x^2 + 3x$ when $x = -2$

Question 13
Expand and simplify
$5(a + 3b) + 4(2a + 4b)$

Question 14
Expand and simplify
$5(2a - b) - 2(3a - 3b)$

Question 15
Work out $150 \times 3.2 =$

Question 16
Work out $405 \div 5 =$

Question 17
Work out $3 \times 2 + 5$

Question 18
Work out $6 \times (9 - 6)$

Question 19
Work out $\frac{10}{11}$ of 121

Question 20
Work out $\frac{5}{7}$ of 126

Question 21
Write down an example of a term

Score

Due date	Thursday 6th June 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA5.7

Name :   FA6.1

Question 1	Question 2	Question 3	Question 4
Solve 9x + 3 > 21	Solve 13x - 5 > -11.5	Work out 0.4 × 0.3 =	Work out 7.32 - 6.9 =

Question 5	Question 6	Question 7	Question 8
Express as a percentage $$\frac{3}{5}$$	Express 75% as a fraction in its lowest form	Factorise 8x + 20	Factorise fully $20x^2$ - 8x

Question 9	Question 10	Question 11	Question 12
Make x the subject of the formula $$y = x + a$$	Make x the subject of the formula $$y = ax$$	Express 24 as a product of primes	Express 27 as a product of primes

Question 13	Question 14	Question 15	Question 16
Increase £360 by 5%	Decrease £160 by 15%	Work out one quarter of £72	Work out two fifths of £85

Question 17	Question 18	Question 19	Question 20
Estimate $$\frac{23.4 + 16}{2.3}$$	Estimate $$\frac{5.32 \times 16}{9.5}$$	Work out the value of 6x - 7 when x = 5	Work out the value of 30 + 6c when c = -2

Question 21
What is a sequence?

Score

www.mathsbox.org.uk

Due date	Thursday 13th June 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA6.1

Name : FA6.2

Question 1	Question 2	Question 3	Question 4
Solve $3x + 5 > 9.5$	Solve $11x + 3 < 36$	Work out $6.8 \div 0.4 =$	Work out $6.49 + 1.78 =$
Question 5 Express as a percentage $\dfrac{19}{20}$	**Question 6** Express 45% as a fraction in its lowest form	**Question 7** Factorise $20x - 28$	**Question 8** Factorise fully $20x^2 - 8x$
Question 9 Make x the subject of the formula $y = x - a$	**Question 10** Make x the subject of the formula $y = \dfrac{x}{a}$	**Question 11** Express 50 as a product of primes	**Question 12** Express 70 as a product of primes
Question 13 Increase £700 by 15%	**Question 14** Decrease £120 by 15%	**Question 15** Work out one quarter of £104	**Question 16** Work out four fifths of £125
Question 17 Estimate $\dfrac{4.8 - 3.23}{4.49}$	**Question 18** Estimate $\dfrac{9.2 \times 19.5}{58}$	**Question 19** Work out the value of $4y - 3$ when $y = 2$	**Question 20** Work out the value of $20 - 2x^2$ when $x = -5$

Question 21
Write down an example of a term

Score

www.mathsbox.org.uk

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA6.2

Name : _____ FA6.3

Question 1	Question 2	Question 3	Question 4
Solve $4x + 4 > 16$	Solve $10x + 2 > 12$	Work out $11.2 \div 0.7 =$	Work out $4.63 + 1.77 =$

Question 5	Question 6	Question 7	Question 8
Express as a percentage $$\frac{9}{20}$$	Express 5% as a fraction in its lowest form	Factorise $4x + 22$	Factorise fully $12x - 28x^2$

Question 9	Question 10	Question 11	Question 12
Make x the subject of the formula $$y = ax + b$$	Make x the subject of the formula $$y = a(x + b)$$	Express 36 as a product of primes	Express 80 as a product of primes

Question 13	Question 14	Question 15	Question 16
Increase £420 by 15%	Decrease £760 by 15%	Work out one third of £72	Work out four fifths of £35

Question 17	Question 18	Question 19	Question 20
Estimate $$\frac{650 - 255}{48}$$	Estimate $$\frac{0.25 \times 18}{1.51}$$	Work out the value of $5x - 10$ when x = 1	Work out the value of $29 - 3x^2$ when x = -2

Question 21
Write down an example of an expression

Score ☐

Due date	Thursday 27th June 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA6.3

Name :

Question 1	Question 2	Question 3	Question 4
Solve $10x - 3 > -23$	Solve $11x - 6 < 16$	Work out $11.9 \div 0.7 =$	Work out $3.99 + 0.65 =$

Question 5	Question 6	Question 7	Question 8
Express as a percentage $\frac{24}{25}$	Express 50% as a fraction in its lowest form	Factorise $5 - 15x$	Factorise fully $9x^2 - 15x$

Question 9	Question 10	Question 11	Question 12
Make x the subject of the formula $y = \frac{x+b}{a}$	Make x the subject of the formula $y = x(a + b)$	Express 72 as a product of primes	Express 100 as a product of primes

Question 13	Question 14	Question 15	Question 16
Increase £520 by 15%	Decrease £440 by 5%	Work out one third of £45	Work out two ninths of £270

Question 17	Question 18	Question 19	Question 20
Estimate $\frac{6.05 + 14.3}{4.05}$	Estimate $\frac{9.55 \times 2.4}{4.502}$	Work out the value of $25 - 4x$ when x = 5	Work out the value of $4b + 2$ when b = -5

Question 21
What are factors?

Score

Due date	Thursday 4th July 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA6.4

Name :

Question 1	Question 2	Question 3	Question 4
Solve $4x + 6 > 4$	Solve $9x + 3 < 30$	Work out $5.3 \times 0.3 =$	Work out $9.44 + 6.54 =$

Question 5	Question 6	Question 7	Question 8
Express as a percentage $\dfrac{11}{25}$	Express 61% as a fraction in its lowest form	Factorise $66x + 42$	Factorise fully $30x^2 + 6x$

Question 9	Question 10	Question 11	Question 12
Make x the subject of the formula $y = \dfrac{x - b}{a}$	Make x the subject of the formula $y = ax^2$	Express 32 as a product of primes	Express 75 as a product of primes

Question 13	Question 14	Question 15	Question 16
Increase £320 by 5%	Decrease £560 by 15%	Work out one half of £21	Work out five eighths of £192

Question 17	Question 18	Question 19	Question 20
Estimate $\dfrac{5.29 - 2.5}{3.8}$	Estimate $\dfrac{50.55 \times 5.5}{54.9}$	Work out the value of $3x + 4$ when $x = 3$	Work out the value of $20 + 3c^2$ when $c = -1$

Question 21
What are multiples?

Score

Due date	Thursday 11th July 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA6.5

Name :

Question 1	Question 2	Question 3	Question 4
Solve $15x + 4 < 26.5$	Solve $3x + 2 > -0.5$	Work out $3.4 \times 0.6 =$	Work out $7.88 - 2.07 =$

Question 5	Question 6	Question 7	Question 8
Express as a percentage $$\frac{17}{20}$$	Express 88% as a fraction in its lowest form	Factorise $66 - 42x$	Factorise fully $15x^2 - 3x$

Question 9	Question 10	Question 11	Question 12
Make x the subject of the formula $$y = (ax)^2$$	Make x the subject of the formula $$y = a\sqrt{x}$$	Express 42 as a product of primes	Express 60 as a product of primes

Question 13	Question 14	Question 15	Question 16
Increase £580 by 10%	Decrease £140 by 5%	Work out one fifth of £195	Work out five eighths of £192

Question 17	Question 18	Question 19	Question 20
Estimate $$\frac{15.29 - 12.5}{0.489}$$	Estimate $$\frac{0.55 \times 98}{24.5}$$	Work out the value of $20 - 3c$ when $c = 4$	Work out the value of $23 - y$ when $y = -5$

Question 21
What are common factors?

Score

Due date	Thursday 18th July 2024
Name	

GCSE Maths homework 10r3

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA6.6