

Name :

FAA5.1

Question 1 Work out $2.3 \times 10^3 \times 2 \times 10^2$	Question 2 Work out $(5.4 \times 10^4) \div (2 \times 10^3)$	Question 3 Factorise $x^2 + 5x + 6$	Question 4 Factorise $x^2 - 2x - 8$
Question 5 Find the gradient of the line through (0,2) and (3, 14)	Question 6 Find the gradient of the line through (-2,2) and (4, 8)	Question 7 Round 4.536 correct to 1 decimal place	Question 8 Round 0.0487 correct to 2 decimal places
Question 9 Work out 1.5×0.4	Question 10 Work out $8 \div 0.5$	Question 11 Express as an inequality the error interval when x is given as 6 when rounded to the nearest integer	Question 12 Express as an inequality the error interval when x is given as 40 when rounded to 1 significant figure.
Question 13 Solve simultaneously $x + y = 7$ $2x + 3y = 19$	Question 14 Solve simultaneously $x + y = 9$ and $5x + 3y = 35$	Question 15 Find the nth term of the sequence 4, 9, 14, 19	Question 16 If the nth term of a sequence is $6n - 5$ find the difference between the 2 nd and 6 th terms
Question 17 A block has a mass of 900g and a volume of 60 cm^3 . Calculate the density.	Question 18 A block has a mass of 900g and a density of 100 g/cm^3 . Calculate the volume.	Question 19 Work out $2\frac{1}{2} + 1\frac{1}{5}$	Question 20 Work out $1\frac{1}{2} \times 1\frac{1}{5}$

Question 21

What is a sequence?

Score

Due date	Thursday 18 th April 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA5.1

Name :

FAA5.2

Question 1 Work out $1.5 \times 10^5 \times 3 \times 10^4$	Question 2 Work out $(1.4 \times 10^5) \div (2 \times 10^3)$	Question 3 Factorise $x^2 + 7x + 10$	Question 4 Factorise $x^2 - 2x + 1$
Question 5 Find the gradient of the line through (-1,1) and (3, 9)	Question 6 Find the gradient of the line through (-1,1) and (3, 1)	Question 7 Round 10.59 correct to 1 decimal place	Question 8 Round 0.5048 correct to 2 decimal places
Question 9 Work out 2.5×0.8	Question 10 Work out $1.6 \div 0.2$	Question 11 Express as an inequality the error interval when x is given as 51 when rounded to the nearest integer	Question 12 Express as an inequality the error interval when x is given as 800 when rounded to 1 significant figure.
Question 13 Solve simultaneously $x + y = 5$ and $6x + 5y = 28$	Question 14 Solve simultaneously $x + y = 9$ and $3x + y = 17$	Question 15 Find the nth term of the sequence 1, 5, 9, 13	Question 16 If the nth term of a sequence is $4n + 2$ find the difference between the 2 nd and 5 th terms
Question 17 A block has a volume of 560 cm^3 and a density of 80 g/cm^3 . Calculate the mass	Question 18 A block has a mass of 240g and a volume of 40 cm^3 . Calculate the density.	Question 19 Work out $2\frac{1}{3} - 1\frac{1}{5}$	Question 20 Work out $1\frac{1}{2} \div 1\frac{1}{4}$

Question 21

Write down an example of a term

Score

Due date	Thursday 25 th April 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA5.2

Name :

FAA5.3

Question 1 Work out $2 \times 10^5 \times 5 \times 10^3$	Question 2 Work out $(4.9 \times 10^6) \div (7 \times 10^2)$	Question 3 Factorise $x^2 - 7x + 12$	Question 4 Factorise $x^2 + 5x - 14$
Question 5 Find the gradient of the line through (5,1) and (3, 9)	Question 6 Find the gradient of the line through (5,-3) and (3, 1)	Question 7 Round 6.057 correct to 1 decimal place	Question 8 Round 0.487 correct to 2 decimal places
Question 9 Work out 0.6×0.04	Question 10 Work out $1.2 \div 0.02$	Question 11 Express as an inequality the error interval when x is given as 3.6 when rounded to 1 decimal place	Question 12 Express as an inequality the error interval when x is given as 54 when rounded to 2 significant figures.
Question 13 Solve simultaneously $5x - 2y = 16$ and $3x - 2y = 8$	Question 14 Solve simultaneously $5x + 3y = 40$ and $x + y = 10$	Question 15 Find the nth term of the sequence -2, 6, 14, 22	Question 16 If the nth term of a sequence is $n^2 + 5$ find the difference between the 2 nd and 7 th terms
Question 17 A block has a mass of 360g and a volume of 60 cm^3 . Calculate the density.	Question 18 A block has a mass of 25g and a density of 10 g/cm^3 . Calculate the volume.	Question 19 Work out $1\frac{3}{4} - \frac{4}{5}$	Question 20 Work out $2\frac{1}{5} \times 1\frac{3}{4}$

Question 21

Write down an example of an expression

Score

Due date	Thursday 2 nd May 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA5.3

Name :

FAA5.4

Question 1 Work out $5 \times 10^4 \times 6 \times 10^3$	Question 2 Work out $(5.4 \times 10^5) \div (9 \times 10^3)$	Question 3 Factorise $x^2 - 13x + 36$	Question 4 Factorise $x^2 - x - 56$
Question 5 Find the gradient of the line through $(-10, 5)$ and $(0, 0)$	Question 6 Find the gradient of the line through $(4, -2)$ and $(-4, 6)$	Question 7 Truncate 6.057 to 1 decimal place	Question 8 Round 1.05 correct to 1 decimal place
Question 9 Work out 0.36×0.02	Question 10 Work out $10 \div 0.04$	Question 11 Express as an inequality the error interval when x is given as 50 when rounded to the nearest integer	Question 12 Express as an inequality the error interval when x is given as 5.6 when rounded to 2 significant figures
Question 13 Solve simultaneously $4x + 3y = 31$ and $4x + 5y = 41$	Question 14 Solve simultaneously $3x - 2y = 11$ and $2x + 5y = 20$	Question 15 Find the n th term of the sequence 14, 21, 28, 35	Question 16 If the n th term of a sequence is $40 - 2n$ find the difference between the 2 nd and 5 th terms
Question 17 A block has a mass of 810g and a volume of 90 cm^3 . Calculate the density.	Question 18 A block has a mass of 210g and a density of 30 g/cm^3 . Calculate the volume.	Question 19 Work out $1\frac{3}{4} + 2\frac{2}{3}$	Question 20 Work out $1\frac{1}{3} \div 1\frac{3}{4}$

Question 21

What are factors?

Score

Due date	Thursday 9 th May 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA5.4

Name :

FAA5.5

Question 1 Work out $9 \times 10^6 \times 5 \times 10^3$	Question 2 Work out $(8.1 \times 10^5) \div (9 \times 10^3)$	Question 3 Factorise $x^2 - 6x - 16$	Question 4 Factorise $x^2 + 6x + 5$
Question 5 Find the gradient of the line through $(-1, -3)$ and $(3, -4)$	Question 6 Find the gradient of the line through $(4, 7)$ and $(2, 3)$	Question 7 Truncate 14.566 to 1 decimal place	Question 8 Round 25.565 correct to 1 decimal place
Question 9 Work out 0.5×0.06	Question 10 Work out $20 \div 0.04$	Question 11 Express as an inequality the error interval when x is given as 101 when rounded to the nearest integer	Question 12 Express as an inequality the error interval when x is given as 6000 when rounded to 1 significant figure.
Question 13 Solve simultaneously $x + y = 4$ and $x + 2y = 6$	Question 14 Solve simultaneously $3x - 2y = 11$ and $2x + 5y = 20$	Question 15 Find the n th term of the sequence 10, 15, 20, 25	Question 16 If the n th term of a sequence is $2n - 9$ find the difference between the 7 th and 10 th terms
Question 17 A block has a mass of 250g and a volume of 50 cm^3 . Calculate the density.	Question 18 A block has a mass of 210g and a density of 60 g/cm^3 . Calculate the volume.	Question 19 Work out $1\frac{1}{4} + 2\frac{2}{3}$	Question 20 Work out $2\frac{1}{5} \div 1\frac{1}{4}$

Question 21

What are multiples?

Score

Due date	Thursday 16 th May 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA5.5

Name :

FAA5.6

Question 1 Work out $7 \times 10^4 \times 4 \times 10^2$	Question 2 Work out $(7.7 \times 10^4) \div (1.1 \times 10^2)$	Question 3 Factorise $x^2 + 7x + 12$	Question 4 Factorise $x^2 - 6x + 9$
Question 5 Find the gradient of the line through (6,0) and (1, -5)	Question 6 Find the gradient of the line through (-5,-2) and (-6, 3)	Question 7 Round 14.566 to correct to 1 decimal place	Question 8 Round 20.502 to correct to 2 decimal places
Question 9 Work out 0.02×0.5	Question 10 Work out $30 \div 0.4$	Question 11 Express as an inequality the error interval when x is given as 0.8 when rounded to 1 decimal place	Question 12 Express as an inequality the error interval when x is given as 7 when rounded to 1 significant figure.
Question 13 Solve simultaneously $x - y = 5$ and $2x + 3y = 5$	Question 14 Solve simultaneously $3x - 5y = -1$ and $4x - 3y = 6$	Question 15 Find the nth term of the sequence 11, 15, 19, 23	Question 16 If the nth term of a sequence is $n^2 + 3$ find the difference between the 2 nd and 5 th terms
Question 17 A block has a mass of 680g and a density of 80 g/cm^3 . Calculate the volume.	Question 18 A block has a mass of 630g and a volume of 70 cm^3 . Calculate the density.	Question 19 Work out $2\frac{3}{8} + 2\frac{4}{5}$	Question 20 Work out $1\frac{3}{8} \div 1\frac{2}{3}$

Question 21

What are common factors?

Score

Due date	Thursday 23 rd May 2024
Name	



GCSE Maths homework

10^{r1} & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA5.6

Name :

FAA5.7

Question 1 Work out $9 \times 10^4 \times 2 \times 10^4$	Question 2 Work out $(2.1 \times 10^4) \div (3 \times 10^2)$	Question 3 Factorise $x^2 + 2x - 48$	Question 4 Factorise $x^2 - 3x - 10$
Question 5 Find the gradient of the line through (7,7) and (-1, 3)	Question 6 Find the gradient of the line through (0,6) and (-2, 10)	Question 7 Round 1.045 to correct to 1 decimal place	Question 8 Round 0.998 to correct to 2 decimal places
Question 9 Work out 12.5×0.02	Question 10 Work out $6 \div 0.4$	Question 11 Express as an inequality the error interval when x is given as 5.0 when rounded to 1 decimal place	Question 12 Express as an inequality the error interval when x is given as 9.9 when rounded to 2 significant figures.
Question 13 Solve simultaneously $x + y = 4$ and $2x + 3y = 13$	Question 14 Solve simultaneously $4x + 5y = 26$ and $5x + 4y = 28$	Question 15 Find the nth term of the sequence 8, 18, 28, 38	Question 16 If the nth term of a sequence is $5n + 3$ find the difference between the 2 nd and 5 th terms
Question 17 A block has a mass of 560g and a volume of 40 cm^3 . Calculate the density.	Question 18 A block has a volume of 160 cm^3 and a density of 80 g/cm^3 . Calculate the mass	Question 19 Work out $3\frac{1}{4} + 1\frac{1}{3}$	Question 20 Work out $3\frac{1}{2} \div 1\frac{1}{4}$

Question 21

What does evaluate mean?

Score

Due date	Thursday 6 th June 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA5.7

Name :

FAA6.1

Question 1 Work out $2.5 \times 10^3 \times 4 \times 10^3$	Question 2 Work out $(1.5 \times 10^4) \div (3 \times 10^{-1})$	Question 3 Factorise $x^2 - 9$	Question 4 Factorise $x^2 - 81$
Question 5 Find the equation of the straight line passing through (0,2) and (3, 14)	Question 6 Find the equation of the straight line passing through (0,2) and (3, 8)	Question 7 If 220g of flour is needed to make 8 cakes, how much flour will be needed to make 12 cakes?	Question 8 If it takes 4 workers 9 days to complete a project how long would it take 3 workers?
Question 9 Factorise $x^2 - 6x + 9$	Question 10 Factorise $x^2 - 2x - 8$	Question 11 Work out 0.5×0.6	Question 12 Work out $0.5 \div 0.02$
Question 13 Round 24.576 correct to 1 decimal place	Question 14 Truncate 24.576 correct to 1 decimal place	Question 15 Work out $1\frac{2}{3} + 2\frac{1}{5}$	Question 16 Work out $2\frac{1}{2} \div \frac{1}{5}$
Question 17 State the exact value of $\sin 30^\circ$	Question 18 State the exact value of $\tan 60^\circ$	Question 19 Solve simultaneously $x + y = 1$ $2x - 3y = 7$	Question 20 Solve simultaneously $2x + y = 1$ and $5x + 3y = 5$

Question 21
What is a sequence?

Score

Due date	Thursday 13 th June 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA6.1

Name :

FAA6.2

Question 1 Work out $2.5 \times 10^4 + 2.5 \times 10^3$	Question 2 Work out $2 \times 10^4 - 1.999 \times 10^3$	Question 3 Factorise $x^2 - 36$	Question 4 Factorise $x^2 - 1$
Question 5 Find the equation of the straight line passing through (0,1) and (-4, 9)	Question 6 Find the equation of the straight line passing through (0,-1) and (2, 1)	Question 7 If 4 pens cost £5, how much will 6 pens cost?	Question 8 If it takes 3 workers 8 days to complete a project how long would it take 12 workers?
Question 9 Factorise $x^2 - x - 12$	Question 10 Factorise $x^2 - 3x + 2$	Question 11 Work out 1.5×0.04	Question 12 Work out $1.5 \div 0.05$
Question 13 Round 0.0879 correct to 1 decimal place	Question 14 Truncate 0.0879 correct to 1 decimal place	Question 15 Work out $2\frac{1}{6} \times 1\frac{1}{2}$	Question 16 Work out $1\frac{4}{5} - 1\frac{2}{3}$
Question 17 State the exact value of $\cos 60^\circ$	Question 18 State the exact value of $\tan 30^\circ$	Question 19 Solve simultaneously $x + 2y = 5$ $2x + 3y = 7$	Question 20 Solve simultaneously $2x + y = 9$ and $x + 3y = 2$

Question 21
 Write down an example of a term

Score

Due date	Thursday 20 th June 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA6.2

Name :

FAA6.3

Question 1 Work out $6 \times 10^{-2} \times 5 \times 10^2$	Question 2 Work out $(5 \times 10^2) \div (5 \times 10^{-1})$	Question 3 Factorise $x^2 - 16$	Question 4 Factorise $x^2 - 36$
Question 5 Find the equation of the straight line passing through (0,1) and (-8, 9)	Question 6 Find the equation of the straight line passing through (0,-3) and (4, 1)	Question 7 If 8 pens cost £20, how much will 6 pens cost?	Question 8 If it takes 5 workers 8 days to complete a project how long would it take 4 workers?
Question 9 Factorise $x^2 + 7x + 12$	Question 10 Factorise $x^2 - 2x - 48$	Question 11 Work out 2.5×0.04	Question 12 Work out $25 \div 0.05$
Question 13 Round 1.099 correct to 1 decimal place	Question 14 Truncate 1.099 correct to 1 decimal place	Question 15 Work out $2\frac{2}{3} \times 1\frac{1}{2}$	Question 16 Work out $\frac{4}{5} \div 1\frac{1}{4}$
Question 17 State the exact value of $\sin 0^\circ$	Question 18 State the exact value of $\cos 45^\circ$	Question 19 Solve simultaneously $x + 2y = 1$ $2x + 3y = 4$	Question 20 Solve simultaneously $x + y = 8$ and $4x - 3y = 11$

Question 21
 Write down an example of an expression

Score

Due date	Thursday 27 th June 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA6.3

Name :

FAA6.4

Question 1 Work out $3 \times 10^{-3} \times 4 \times 10^2$	Question 2 Work out $(1 \times 10^2) \div (5 \times 10^{-2})$	Question 3 Factorise $x^2 - 49$	Question 4 Factorise $x^2 - 144$
Question 5 Find the equation of the straight line passing through (0,5) and (-5, 20)	Question 6 Find the equation of the straight line passing through (0,-2) and (-4, 6)	Question 7 If 180g of flour is needed to make 15 cakes, how much flour will be needed to make 12 cakes?	Question 8 If it takes 6 workers 10 days to complete a project how long would it take 4 workers?
Question 9 Factorise $x^2 - 12x + 35$	Question 10 Factorise $x^2 + x - 42$	Question 11 Work out 0.05×0.8	Question 12 Work out $0.02 \div 0.5$
Question 13 Round 1.099 correct to 2 decimal places	Question 14 Truncate 1.099 correct to 2 decimal places	Question 15 Work out $2\frac{1}{4} + 1\frac{4}{5}$	Question 16 Work out $2\frac{1}{5} - 1\frac{3}{4}$
Question 17 State the exact value of $\tan 0^\circ$	Question 18 State the exact value of $\sin 90^\circ$	Question 19 Solve simultaneously $x + 2y = 10$ $2x + 3y = 14$	Question 20 Solve simultaneously $6x + y = 1$ and $4x - 3y = 8$

Question 21

What are factors?

Score

Due date	Thursday 4 th July 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA6.4

Name :

FAA6.5

Question 1 Work out $2.99 \times 10^3 + 1.9 \times 10^2$	Question 2 Work out $5 \times 10^4 - 9.99 \times 10^2$	Question 3 Factorise $x^2 - 225$	Question 4 Factorise $x^2 - 100$
Question 5 Find the equation of the straight line passing through (0,-3) and (3, -3)	Question 6 Find the equation of the straight line passing through (0,7) and (2, 3)	Question 7 If 420g of flour is needed to make 12 cakes, how much flour will be needed to make 15 cakes?	Question 8 If it takes 8 workers 6 days to complete a project how long would it take 12 workers?
Question 9 Factorise $x^2 - x - 72$	Question 10 Factorise $x^2 + 6x - 72$	Question 11 Work out 4.5×0.04	Question 12 Work out $0.3 \div 0.006$
Question 13 Round 0.899 correct to 2 decimal places	Question 14 Truncate 0.899 correct to 2 decimal places	Question 15 Work out $1 \frac{1}{10} \times 2 \frac{1}{5}$	Question 16 Work out $2 \frac{1}{2} \div 1 \frac{4}{5}$
Question 17 State the exact value of $\cos 30^\circ$	Question 18 State the exact value of $\sin 60^\circ$	Question 19 Solve simultaneously $3x + y = 2$ $5x - 3y = 8$	Question 20 Solve simultaneously $x + 2y = 2$ and $3x - 2y = 14$

Question 21

What are multiples?

Score

Due date	Thursday 11 th July 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA6.5

Name :

FAA6.6

Question 1 Work out $8 \times 10^{-4} \times 5 \times 10^5$	Question 2 Work out $(2 \times 10^4) \div (5 \times 10^{-1})$	Question 3 Factorise $x^2 - 64$	Question 4 Factorise $x^2 - 16$
Question 5 Find the equation of the straight line passing through (0,6) and (3, -6)	Question 6 Find the equation of the straight line passing through (0,-2) and (-2, 8)	Question 7 If 640g of flour is needed to make 20 cakes, how much flour will be needed to make 15 cakes?	Question 8 If it takes 2 workers 9 days to complete a project how long would it take 6 workers?
Question 9 Factorise $x^2 + 5x - 24$	Question 10 Factorise $x^2 - 2x - 24$	Question 11 Work out 0.1×0.01	Question 12 Work out $0.1 \div 0.025$
Question 13 Round 0.0999 correct to 2 decimal places	Question 14 Truncate 0.0999 correct to 2 decimal places	Question 15 Work out $2\frac{3}{5} \times 2\frac{3}{5}$	Question 16 Work out $1\frac{3}{5} \div 2\frac{3}{5}$
Question 17 State the exact value of $\tan 45^\circ$	Question 18 State the exact value of $\cos 90^\circ$	Question 19 Solve simultaneously $x + 2y = 2$ $3x - y = 20$	Question 20 Solve simultaneously $x + 4y = 7$ and $2x + 5y = 8$

Question 21
 What are common factors?

Score

Due date	Thursday 18 th July 2024
Name	



GCSE Maths homework

10r1 & 2

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FAA6.6