Due date	Thursday 18 th January 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Question 1	Question 2	Question 3	Question 4
Solve 2x - 6 = -12	Solve 11x - 6 = 10.5	4(2a - b) - 3(a + 5b)	5(a - 4b) + 2(2a + 2b)
Question 5	Question 6	Question 7	Question 8
Work out 2.3 × 9 =	Work out 103 ÷ 8 =	Find 60% of £1000	Find 20% of £600
Question 9	Question 10	Question 11	Question 12
Divide £28 in the ratio 5 : 2	Divide £64 in the ratio 3:5	Work out 6 × (11 - 3)	Work out 5 × 2 + 3
Question 13	Question 14	Question 15	Question 16
If the nth term of a sequence is	If the nth term of a sequence is	Factorise 10 - 25x	Factorise fully $30x^3 + 20x^2$
7n + 2 what is the 10th term?	3n + 5 what is the 8th term?		
Question 17	Question 18	Question 19	Question 20
Express 21 as a product of prime	Express 330 as a product of prime	How much change would you get from	What is £10 - 2 × £1.44?
factors	factors	£10 if you spent £1.43 and £1.15?	Wildt is 110 - 2 × 11.44;

Due date	Thursday 25 th January 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

TTUTTIC .			17.5.2
Question 1	Question 2	Question 3	Question 4
Solve 4x + 2 = 2x + 14	Solve 3(7x - 2) = -27	5(a - 2b) + 2(a + 5b)	5(4a - 3b) + 2(a - 3b)
Question 5 Work out 7.3 × 6.3 =	Question 6 Work out 85 ÷ 4 =	Question 7 Find 35% of £380	Question 8 Find 75% of £420
Question 9	Question 10	Question 11	Question 12
Divide £132 in the ratio 3 : 8	Divide £112 in the ratio 5:11	Work out 3+4×2	Work out 2 × (6 + 2) × 5
Question 13	Quantian 44	Oversion 45	Question 16
If the nth term of a sequence is	Question 14 If the nth term of a sequence is	Question 15 Factorise 21 - 9x	Factorise fully $24x + 16x^2$
7n - 1 what is the 6th term?	12n + 2 what is the 7th term?	ractorise 21 - 9x	$24x + 16x^{-1}$
Question 17	Question 18	Question 19	Question 20
Express 231 as a product of prime	Express 24 as a product of prime	How much change would you get from	What is £5 - 2 × £0.81?
factors	factors	£10 if you spent £2.27 and £2.77?	
Ougstion 31			

What does 'index' mean

Score

Due date	Thursday 1st February 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Question 1	Question 2	Question 3	Question 4
Solve 4x - 4 = 2x - 6	Solve 6x - 2 = 5x - 5	5(4a + 2b) - 3(2a + b)	3(a - 4b) - 2(a + 4b)
Question 5 Work out 68 × 1.1 =	Question 6 Work out 86 ÷ 5 =	Question 7 Find 95% of £100	Question 8 Find 50% of £40
Question 9 Divide £143 in the ratio 2 : 11	Question 10 Divide £144 in the ratio 11:7	Question 11 Work out 12 × (8 - 6)	Question 12 Work out $6+6\times3^2$
Question 13 If the nth term of a sequence is 10n - 6 what is the 11th term?	Question 14 If the nth term of a sequence is 4n + 3 what is the 6th term?	Question 15 Factorise 35x + 55	Question 16 Factorise fully $12x^3 - 30x^2$
Question 17 Express 40 as a product of prime factors	Question 18 Express 126 as a product of prime factors	Question 19 How much change would you get from £10 if you spent £2.39 and £3.98?	Question 20 What is £10 - 4 × £1.91?

Due date	Thursday 8 th February 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Question 1	Question 2	Question 3	Question 4
Solve 4(10x + 5) = 260	Solve 2(6x - 5) = -58	2(3a + 2b) - 2(2a + 5b)	2(a + 5b) + 2(2a - 5b)
Question 5	Question 6	Question 7	Question 8
Work out 58 × 0.8 =	Work out 56 ÷ 5 =	Find 30% of £560	Find 30% of £920
Question 9	Question 10	Question 11	Question 12
Divide £140 in the ratio 3 : 11	Divide £143 in the ratio 11 : 2	Work out 3 × 4 + 5	Work out 2 × (5 + 4) × 5
Divide 1140 III the ratio 3 : 11	Divide 1145 in the ratio 11.2	Work out 3 x 4 · 3	Work out 2 x (3 : 4) x 3
Question 13	Question 14	Question 15	Question 16
If the nth term of a sequence is	If the nth term of a sequence is	Factorise 4x + 22	Factorise fully $24x - 8x^2$
6n + 4 what is the 9th term?	5n + 2 what is the 5th term?		212 02
Question 17	Question 18	Question 19	Question 20
Express 32 as a product of prime	Express 112 as a product of prime	1 -	What is £10 - 3 × £1.38?
factors	factors	£10 if you spent £2.50 and £3.99?	
Ouestion 21			

What does 'simplify' mean?

Score

Due date	Thursday 22 nd February 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Name:	FA3.5
Name .	TAS.

Question 1	Question 2	Question 3	Question 4
Solve 4x + 1 = 3x - 1	Solve 7x = 2x + 30	3(2a - 4b) - 4(2a - 3b)	4(2a + 3b) + 2(2a - 5b)
Question 5 Work out 8.3 × 8.1 =	Question 6 Work out 121 ÷ 4 =	Question 7 Find 45% of £520	Question 8 Find 50% of £740
Question 9	Question 10	Question 11	Question 12
Divide £96 in the ratio 3 : 5	Divide £84 in the ratio 5 : 2	Work out 10 × (12 - 4)	Work out $3 + 12 \times 2^2$
Question 13	Question 14	Question 15	Question 16
If the nth term of a sequence is	If the nth term of a sequence is	Factorise 4x - 6	Factorise fully $16y^2 - 8y^3$
10n what is the 12th term?	4n - 2 what is the 5th term?		
Question 17	Question 18	Question 19	Question 20
Express 16 as a product of prime	Express 21 as a product of prime	How much change would you get from	What is £10 - 4 × £1.15?
factors	factors	£10 if you spent £2.35 and £3.13?	

What does 'product' mean?

Score

www.mathsbox.org.uk

Due date	Thursday 29 th February 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

			17(112
Work out $\frac{1}{2} - \frac{1}{3}$	Question 2 $\frac{1}{2} + \frac{1}{3}$	Question 3 Round 9864 to 1 significant figure	Question 4 Round 0.8888 to 1 significant figure
Question 5 $\frac{1}{6} \times \frac{2}{3}$	Work out $\frac{1}{4} \div \frac{2}{3}$	Question 7 Factorise 80x + 30	Question 8 Factorise fully $30x^2 + 10x$
Question 9 Find the lowest common multiple of 10 and 6	Question 10 Express 1440 as a product of prime factors	Question 11 Work out 76 × 26 =	Question 12 Work out 709 × 41 =
Question 13 Express 0.33 as a fraction	Question 14 Express as a percentage $\frac{2}{5} =$	Question 15 What is the 12th square number?	Question 16 What is the 6th prime number?
Question 17 Find 5% of £820	Question 18 Find 45% of £240	Question 19 Calculate the area of a circle with radius = 6 cm. Leave your answer in terms of π	Question 20 Calculate the circumference of a circle with radius = 4 cm. Leave your answer in terms of π

Due date	Thursday 7 th March 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Question 1	Question 2 1 1	Question 3	Question 4
Work out $\frac{3}{4} - \frac{1}{2}$	$\frac{1}{4} + \frac{1}{6}$	Round 579697 to 1 significant figure	Round 0.42254 to 1 significant figure
Work out $\frac{1}{5} \times \frac{1}{2}$	Work out $\frac{2}{5} \div \frac{1}{3}$	Question 7 Factorise 36x - 16	Question 8 Factorise fully $80x^2 + 70x$
Question 9	Question 10	Question 11	Question 12
Find the highest common factor of 50 and 35	Express 10 as a product of prime factors	Work out 54 × 48 =	Work out 679 × 71 =
Question 13	Question 14	Question 15	Question 16
Express 0.13 as a percentage	Express as a percentage $\frac{15}{20} =$	What is the 9th square number?	What is the 4th prime number?
Question 17	Question 18	Question 19	Question 20
Find 20% of £280	Find 90% of £640	Calculate the area of a circle with radius = 3 cm. Leave your answer in terms of π	Calculate the circumference of a circle with radius = 6 cm. Leave your answer in terms of π

Due date	Thursday 14 th March 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

	Traine .			171-13
Work out $\frac{2}{3} \times \frac{1}{2}$ Work out $\frac{1}{2} \div \frac{2}{3}$ Reactorise 42×-49 Factorise 42×-49 Factorise fully $45 \times 2 - 35 \times 2 = 25 \times 2$	Work out $\frac{8}{2}$	1 1		
Find the lowest common multiple of 24 and 12 Express 432 as a product of prime factors Question 13 Express 0.58 as a fraction Question 14 Express as a percentage $\frac{1}{20}$ = Question 17 Find 5% of £940 Question 18 Find 35% of £520 Question 19 Calculate the area of a circle with diameter = 20 cm. Leave your answer Question 2 Question 3 Question 2 Question 3 Question 3 Question 3 Question 3 Question 3 Question 4 Question 5 Question 5 Question 6 Question 6 Question 6 Question 19 Question 6 Question 7 Question 19 Question 6 Question 7 Question 7 Question 9 Ques	4 1			
Express 0.58 as a fraction Express as a percentage $\frac{1}{20}$ = Question 17 Find 5% of £940 Express as a percentage What is the 10th square number? What is the 1st prime number? Question 19 Calculate the area of a circle with diameter = 20 cm. Leave your answer What is the 1st prime number? Calculate the 1st prime number? Calculate the 1st prime number? Calculate 1st prime number? Calculate the 1st prime number? Calculate the 1st prime number? Calculate the 2st prime number?	Find the lowest common multiple of 24	Express 432 as a product of prime		
Question 17 Find 5% of £940 Question 18 Find 35% of £520 Question 19 Calculate the area of a circle with diameter = 20 cm. Leave your answer With radius = 12 cm. Leave your answer		Express as a percentage $\frac{1}{} =$		
		Question 18	Calculate the area of a circle with diameter = 20 cm. Leave your answer	Calculate the circumference of a circle with radius = 12 cm. Leave your answer

Due date	Thursday 21st March 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Name.			174.4
Work out $\frac{3}{4} - \frac{2}{3}$	Question 2 $\frac{7}{10} + \frac{4}{7}$	Question 3 Round 940 to 1 significant figure	Question 4 Round 0.952 to 1 significant figure
Question 5 $\frac{2}{5} \times \frac{1}{3}$	Question 6 Work out $\frac{1}{3} \div \frac{1}{2}$	Question 7 Factorise 48x + 42	Question 8 Factorise fully $18x^2 + 42x$
Question 9 Find the highest common factor of 80 and 20	Question 10 Express 4320 as a product of prime factors	Question 11 Work out 32 × 22 =	Question 12 Work out 330 × 54 =
Question 13 Express 0.58 as a percentage	Question 14 Express as a percentage $\frac{7}{25} =$	Question 15 What is the 7th square number?	Question 16 What is the 6th prime number?
Question 17 Find 20% of £160	Question 18 Find 70% of £580	Question 19 Calculate the area of a circle with radius = 12 cm. Leave your answer in terms of π	Question 20 Calculate the circumference of a circle with radius = 4 cm. Leave your answer in terms of π

Circle any constants in the expression $3x^2 + 2x + 4$

Due date	Thursday 28 th March 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Name: FA4.5

Name.			174.3
Work out $\frac{5}{6} - \frac{1}{7}$	Question 2 $\frac{1}{3} + \frac{1}{2}$	Question 3 Round 4770 to 1 significant figure	Question 4 Round 0.26683 to 1 significant figure
Question 5 $\frac{4}{9} \times \frac{1}{2}$	Question 6 Work out $\frac{4}{5} \div \frac{1}{2}$	Question 7 Factorise 56x + 35	Question 8 Factorise fully $14x^2 + 49x$
Question 9 Find the highest common factor of 16 and 56	Question 10 Express 2160 as a product of prime factors	Question 11 Work out 35 × 58 =	Question 12 Work out 670 × 21 =
Question 13 Express 0.63 as a fraction	Question 14 Express as a percentage $\frac{17}{20} =$	Question 15 What is the 10th square number?	Question 16 What is the 3rd prime number?
Question 17 Find 20% of £720	Question 18 Find 40% of £40	Question 19 Calculate the area of a circle with radius = 3 cm. Leave your answer in terms of π	Question 20 Calculate the circumference of a circle with diameter = 18 cm. Leave your answer in terms of π

Due date	Thursday 11 th April 2024
Name	



Year 11 terms 3 & 4

Knowledge Check

Question 1	Question 2	Question 3	Question 4
Work out $1.1 \times 10^4 + 2.9 \times 10^3$	Work out $2.0 \times 10^4 - 5.5 \times 10^2$	Expand and simplify (x - 9)(x + 8)	Expand and simplify (x + 7)(x + 8)
Question 5 Factorise $x^2 + 15x + 44$	Question 6 Factorise $x^2 + 7x - 44$	Question 7 An antique is sold £575 making a 15% profit. What was the original price of the antique?	Question 8 A car is sold for £2100 making a 30% loss. What was the original price of the car?
Question 9 Work out $\frac{1}{4} \div \frac{1}{2}$	Question 10 Work out $\frac{3}{5} - \frac{1}{4}$	Question 11 Express as an inequality the error interval when x is given as 1.9 when rounded to 1 decimal place	Question 12 Express as an inequality the error interval when x is given as 4 when rounded to 1 significant figure.
Question 13 Solve $x^2 + 12x = 0$	Question 14 Solve $4x^2 + 12x = 0$	Question 15 The price of an item increased from £120 to £138. Calculate the percentage change	Question 16 The price of an item decreased from £70 to £49. Calculate the percentage change
Question 17 A car travels for 1 hour 20 minutes at a speed of 72 km per hour. Calculate the distance travelled.	Question 18 A car travels 80km at a speed of 60 km/h. How long does the journey take?	Question 19 Sketch the graph of y = 5 - x	Question 20 Sketch the graph of y = x + 5