Due date	Thursday 18 th January 2024
Name	



Year 10 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 10 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 10 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 10 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 10 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

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Due date	Thursday 29 th February 2024
Name	



Year 10 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 10 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 10 terms 3 & 4

Knowledge Check

ranic .			171-13
Work out $\frac{8}{9} - \frac{2}{3}$	Question 2 $\frac{1}{2} + \frac{1}{3}$	Question 3 Round 634 to 1 significant figure	Question 4 Round 0.414 to 1 significant figure
Question 5 $\frac{2}{3} \times \frac{1}{2}$	Question 6 Work out $\frac{1}{2} \div \frac{2}{3}$	Question 7 Factorise 42x - 49	Question 8 Factorise fully $45x^2 - 35x$
Question 9 Find the lowest common multiple of 2- and 12	Question 10 Express 432 as a product of prime factors	Question 11 Work out 67 × 32 =	Question 12 Work out 594 × 20 =
Question 13 Express 0.58 as a fraction	Question 14 Express as a percentage 1 =	Question 15 What is the 10th square number?	Question 16 What is the 1st prime number?
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 20 Calculate the circumference of a circle with radius = 12 cm. Leave your answer
		in terms of $\boldsymbol{\pi}$	in terms of π

Due date	Thursday 21st March 2024
Name	



Year 10 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 10 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 10 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