

Name :

FA2.1

Question 1 Expand and simplify $5(3x - 5) + 2(3x + 2)$	Question 2 Expand and simplify $4(2x - 4) - 3(2x + 3)$	Question 3 Solve $5(5x - 6) = -67.5$	Question 4 Solve $4(3x + 5) = 2$
Question 5 Work out $21 \times \text{£}9.40$	Question 6 Work out $\text{£}798 \div 14$	Question 7 Express 20 as a product of prime factors	Question 8 Express 120 as a product of prime factors
Question 9 Find the nth term: 8, 18, 28, 38, 48,...	Question 10 If the nth term of a sequence is $12n - 6$ what is the 8th term?	Question 11 Find 60% of $\text{£}980$	Question 12 Find 80% of $\text{£}120$
Question 13 Complete $0.13 \text{ l} \dots 350 \text{ ml}$ ($<$ = or $>$)	Question 14 Complete $0.3 \text{ l} \dots 380 \text{ ml}$ ($<$ = or $>$)	Question 15 Work out the value of $19 - a$ when $a = 3$	Question 16 Work out the value of $c \div 8$ when $c = 56$
Question 17 Work out $0.07 \times 0.5 =$	Question 18 Work out $0.7 \times 0.5 =$	Question 19 Simplify $100 \text{ mm} : 110 \text{ cm}$	Question 20 Simplify $1.1 \text{ kg} : 2200 \text{ g}$

SKILLS CHECK

Score

Due date	Thursday 18 th April 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA2.1

Name :

Question 1 Expand and simplify $4(2x + 4) + 2(3x - 5)$	Question 2 Expand and simplify $3(3x + 4) + 2(5x - 3)$	Question 3 Solve $5(5x + 6) = 5$	Question 4 Solve $5(3x - 4) = -80$
Question 5 Work out $32 \times \text{£}29.70$	Question 6 Work out $\text{£}1240 \div 16$	Question 7 Express 165 as a product of prime factors	Question 8 Express 336 as a product of prime factors
Question 9 Find the nth term: 11, 23, 35, 47, 59,...	Question 10 If the nth term of a sequence is $5n + 2$ what is the 8th term?	Question 11 Find 60% of $\text{£}820$	Question 12 Find 55% of $\text{£}300$
Question 13 Complete $60 \text{ mm} \dots\dots 5.5 \text{ cm}$ (< = or >)	Question 14 Complete $0.4 \text{ l} \dots\dots 120 \text{ ml}$ (< = or >)	Question 15 Work out the value of $22 - 2x$ when $x = 8$	Question 16 Work out the value of $2b$ when $b = 6$
Question 17 Work out $0.8 \times 0.06 =$	Question 18 Work out $0.09 \times 1 =$	Question 19 Simplify $0.9 \text{ kg} : 3300 \text{ g}$	Question 20 Simplify $11 \text{ kg} : 7000 \text{ g}$

Question 21

What does 'direct proportion' mean?

Score

Due date	Thursday 25 th April 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA2.2

Name :

FA2.3

Question 1 Expand and simplify $2(2x + 3) + 4(5x + 3)$	Question 2 Expand and simplify $4(2x + 4) + 5(4x + 3)$	Question 3 Solve $4(5x + 2) = 128$	Question 4 Solve $5(7x + 3) = -125$
Question 5 Work out $21 \times \text{£}45.70$	Question 6 Work out $\text{£}210 \div 12$	Question 7 Express 144 as a product of prime factors	Question 8 Express 72 as a product of prime factors
Question 9 Find the nth term: 6, 9, 12, 15, 18, ...	Question 10 If the nth term of a sequence is $3n - 4$ what is the 10th term?	Question 11 Find 15% of $\text{£}800$	Question 12 Find 40% of $\text{£}720$
Question 13 Complete $2.73\text{kg} \dots\dots 2130\text{g}$ ($<$ = or $>$)	Question 14 Complete $3980\text{ m} \dots\dots 1.08\text{ km}$ ($<$ = or $>$)	Question 15 Work out the value of $5b - 9$ when $b = 2$	Question 16 Work out the value of $23 - 2a$ when $a = 7$
Question 17 Work out $0.11 \times 1 =$	Question 18 Work out $0.06 \times 0.5 =$	Question 19 Simplify $12.6\text{ kg} : 5400\text{ g}$	Question 20 Simplify $990\text{ mm} : 45\text{ cm}$

Question 21

What is a prism?

Score

Due date	Thursday 2 nd May 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA2.3

Name :

FA2.4

Question 1 Expand and simplify $2(2x - 3) + 2(3x + 4)$	Question 2 Expand and simplify $3(2x + 3) + 3(3x - 2)$	Question 3 Solve $4(6x - 3) = 24$	Question 4 Solve $3(3x + 5) = 69$
Question 5 Work out $35 \times \text{£}36.50$	Question 6 Work out $\text{£}1368 \div 18$	Question 7 Express 252 as a product of prime factors	Question 8 Express 120 as a product of prime factors
Question 9 Find the nth term: 6, 14, 22, 30, 38,...	Question 10 If the nth term of a sequence is $9n + 5$ what is the 8th term?	Question 11 Find 70% of $\text{£}860$	Question 12 Find 80% of $\text{£}140$
Question 13 Complete 2.2 m..... 300 cm ($<$ = or $>$)	Question 14 Complete 2 kg 2420 g ($<$ = or $>$)	Question 15 Work out the value of $5b - 4$ when $b = 7$	Question 16 Work out the value of $22 - 2y$ when $y = 10$
Question 17 Work out $0.06 \times 0.8 =$	Question 18 Work out $0.8 \times 0.05 =$	Question 19 Simplify $3.3 \text{ kg} : 5500 \text{ g}$	Question 20 Simplify $30 \text{ mm} : 21 \text{ cm}$

SKILLS CHECK

Score

Due date	Thursday 9 th May 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA2.4

Name :

FA2.5

Question 1 Expand and simplify $4(2x - 4) + 4(5x + 2)$	Question 2 Expand and simplify $2(3x - 2) - 5(3x + 2)$	Question 3 Solve $4(5x + 6) = 64$	Question 4 Solve $2(7x + 4) = -48$
Question 5 Work out $18 \times \text{£}17.10$	Question 6 Work out $\text{£}352 \div 22$	Question 7 Express 540 as a product of prime factors	Question 8 Express 56 as a product of prime factors
Question 9 Find the nth term: 4, 13, 22, 31, 40,...	Question 10 If the nth term of a sequence is $12n - 3$ what is the 9th term?	Question 11 Find 40% of $\text{£}240$	Question 12 Find 55% of $\text{£}540$
Question 13 Complete 2190 ml..... 1.48 l ($<$ = or $>$)	Question 14 Complete 1760 m1.59 km ($<$ = or $>$)	Question 15 Work out the value of $21 - a$ when $a = 1$	Question 16 Work out the value of $24 - 2a$ when $a = 10$
Question 17 Work out $0.4 \times 0.5 =$	Question 18 Work out $0.9 \times 0.2 =$	Question 19 Simplify $160 \text{ mm} : 56 \text{ cm}$	Question 20 Simplify $7 \text{ kg} : 4200 \text{ g}$

SKILLS CHECK

Score

Due date	Thursday 16 th May 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA2.5

Question 1 Expand and simplify $5(2x - 5) + 5(5x - 3)$	Question 2 Expand and simplify $2(3x - 2) - 2(3x + 5)$	Question 3 Solve $2(3x + 4) = 2$	Question 4 Solve $5(7x + 5) = 235$
Question 5 Work out $32 \times \text{£}29.40$	Question 6 Work out $\text{£}1239 \div 21$	Question 7 Express 360 as a product of prime factors	Question 8 Express 80 as a product of prime factors
Question 9 Find the nth term: 14, 25, 36, 47, 58,...	Question 10 If the nth term of a sequence is $9n + 6$ what is the 7th term?	Question 11 Find 20% of $\text{£}820$	Question 12 Find 45% of $\text{£}920$
Question 13 Complete 200 cm 2.6 m ($<$ = or $>$)	Question 14 Complete 0.18 l.....240 ml ($<$ = or $>$)	Question 15 Work out the value of $20 - 2a$ when $a = 3$	Question 16 Work out the value of $2a - 6$ when $a = 9$
Question 17 Work out $0.12 \times 1.1 =$	Question 18 Work out $0.11 \times 1.2 =$	Question 19 Simplify $50 \text{ mm} : 25 \text{ cm}$	Question 20 Simplify $120 \text{ mm} : 6 \text{ cm}$

Due date	Thursday 23 rd May 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA2.6

Name :

FA2.7

Question 1 Expand and simplify $5(3x - 5) + 4(6x + 5)$	Question 2 Expand and simplify $2(2x - 3) - 5(5x + 4)$	Question 3 Solve $5(4x - 5) = 75$	Question 4 Solve $4(3x - 4) = 14$
Question 5 Work out $28 \times \text{£}22.10$	Question 6 Work out $\text{£}1224 \div 18$	Question 7 Express 216 as a product of prime factors	Question 8 Express 1120 as a product of prime factors
Question 9 Find the nth term: -3, -1, 1, 3, 5,...	Question 10 If the nth term of a sequence is $6n - 2$ what is the 5th term?	Question 11 Find 95% of $\text{£}220$	Question 12 Find 40% of $\text{£}520$
Question 13 Complete $330 \text{ cm} \dots\dots 2 \text{ m}$ ($<$ = or $>$)	Question 14 Complete $1.59 \text{ kg} \dots\dots 2960 \text{ g}$ ($<$ = or $>$)	Question 15 Work out the value of $29 - 4c$ when $c = 9$	Question 16 Work out the value of $y - 3$ when $y = 9$
Question 17 Work out $1.2 \times 0.2 =$	Question 18 Work out $0.04 \times 1.2 =$	Question 19 Simplify $3.5 \text{ kg} : 4900 \text{ g}$	Question 20 Simplify $180 \text{ mm} : 66 \text{ cm}$

Question 21

How many sides has a heptagon?

Due date	Thursday 6 th June 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA2.7

Name :

FA3.1

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

Question 21
What does 'simplify' mean?

Score

Due date	Thursday 13 th June 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA3.1

Name :

FA3.2

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

Score

Due date	Thursday 20 th June 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FA3.2

Name :

FA3.3

Question 1 Solve $4x - 4 = 2x - 6$	Question 2 Solve $6x - 2 = 5x - 5$	Question 3 $5(4a + 2b) - 3(2a + b)$	Question 4 $3(a - 4b) - 2(a + 4b)$
Question 5 Work out $68 \times 1.1 =$	Question 6 Work out $86 \div 5 =$	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 $12 \times (8 - 6)$	Question 12 Work out $6 + 6 \times 3^2$
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 $£10 - 4 \times £1.91$?

Question 21
What does 'coefficient' mean?

Score

Due date	Thursday 27 th June 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA3.3

Name :

FA3.4

Question 1 Solve $4(10x + 5) = 260$	Question 2 Solve $2(6x - 5) = -58$	Question 3 $2(3a + 2b) - 2(2a + 5b)$	Question 4 $2(a + 5b) + 2(2a - 5b)$
Question 5 Work out $58 \times 0.8 =$	Question 6 Work out $56 \div 5 =$	Question 7 Find 30% of £560	Question 8 Find 30% of £920
Question 9 Divide £140 in the ratio 3 : 11	Question 10 Divide £143 in the ratio 11 : 2	Question 11 Work out $3 \times 4 + 5$	Question 12 Work out $2 \times (5 + 4) \times 5$
Question 13 If the nth term of a sequence is $6n + 4$ what is the 9th term?	Question 14 If the nth term of a sequence is $5n + 2$ what is the 5th term?	Question 15 Factorise $4x + 22$	Question 16 Factorise fully $24x - 8x^2$
Question 17 Express 32 as a product of prime factors	Question 18 Express 112 as a product of prime factors	Question 19 How much change would you get from £10 if you spent £2.50 and £3.99?	Question 20 What is $£10 - 3 \times £1.38$?
Question 21 What does 'simplify' mean?	Score <input type="text"/>		

Due date	Thursday 4 th July 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check

Homework Sheet FA3.4

Name :

FA3.5

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

Question 21
What does 'product' mean?

Score

Due date	Thursday 11 th July 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FA3.5

Name :

FA3.6

Question 1 Solve $3(7x - 4) = 93$	Question 2 Solve $3x + 3 = 2x + 2$	Question 3 $2(3a + 5b) - 5(2a + 2b)$	Question 4 $3(3a + 3b) - 3(a + 3b)$
Question 5 Work out $3.4 \times 4.6 =$	Question 6 Work out $49 \div 2 =$	Question 7 Find 35% of £940	Question 8 Find 50% of £980
Question 9 Divide £121 in the ratio 3 : 8	Question 10 Divide £32 in the ratio 5 : 3	Question 11 Work out $8 + 8 \times 3$	Question 12 Work out $9 \times (10 + 4^2)$
Question 13 If the n th term of a sequence is $5n + 6$ what is the 6th term?	Question 14 If the n th term of a sequence is $9n$ what is the 5th term?	Question 15 Factorise $30 - 18x$	Question 16 Factorise fully $9x + 45x^2$
Question 17 Express 48 as a product of prime factors	Question 18 Express 110 as a product of prime factors	Question 19 How much change would you get from £10 if you spent £2.81 and £0.99?	Question 20 What is $£5 - 2 \times £0.68$?

Question 21

What does 'index' mean

Score

Due date	Thursday 18 th July 2024
Name	



GCSE Maths homework 10b1

Year 10 terms 5 & 6

Knowledge Check
Homework Sheet FA3.6