

Due date	Thursday 18 th January 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB3.1

Name :

FB3.1

Question 1 Calculate the mean 6, 2, 16, 4, 37	Question 2 Find the median 6, 19, 14, 7, 15	Question 3 Expand $6(5 + 11x)$	Question 4 Expand $4x(5 - 11x)$
Question 5 Work out the value of $2a^2$ when $a = 9$	Question 6 Work out the value of $6y - 6$ when $y = 2$	Question 7 Work out $43 - 2 \times 2$	Question 8 Work out $2 \times 3 + 2 \times 5$
Question 9 Simplify $6a + 3b + 6a + 3b$	Question 10 Simplify $5a + 3b + 5a + 3b$	Question 11 Work out $1.67 \times 10 =$	Question 12 Work out $0.8 \times 100 =$
Question 13 Simplify $\frac{11}{121} =$	Question 14 Simplify $\frac{4}{20} =$	Question 15 Complete $14000 \text{ m} = \dots \text{ km}$	Question 16 Complete $11500 \text{ m} = \dots \text{ km}$
Question 17 Solve $x \times 12 = 84$	Question 18 Solve $13x - 3 = -16$	Question 19 How much change would you get from £10 if you spent £1.99 and £1.32?	Question 20 How much change would you get from £10 if you spent £1.95 and £0.64?

Question 21
 What does convert mean?

Score

Due date	Thursday 25 th January 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB3.2

Name :

FB3.2

Question 1 Calculate the mean 25, 13, 13, 5, 69	Question 2 Calculate the mean 2, 5, 7, 2, 54	Question 3 Expand $3(11x + 1)$	Question 4 Expand $6x(11x - 1)$
Question 5 Work out the value of $27 + 4a$ when $a = 2$	Question 6 Work out the value of $16 + 3a$ when $a = 3$	Question 7 Work out $59 - 8 \times 3$	Question 8 Work out $2 + 5 \times 3 + 12$
Question 9 Simplify $9a + 2b + 5a + 5b$	Question 10 Simplify $8a + 2b + 4a + 3b$	Question 11 Work out $161.4 \times 10 =$	Question 12 Work out $240.2 \times 10 =$
Question 13 Simplify $\frac{12}{18} =$	Question 14 Simplify $\frac{15}{35} =$	Question 15 Complete $120 \text{ mm} = \dots \text{ cm}$	Question 16 Complete $160 \text{ mm} = \dots \text{ cm}$
Question 17 Solve $x + 11 = 19$	Question 18 Solve $4x - 4 = 6$	Question 19 How much change would you get from £10 if you spent £2.75 and £2.72?	Question 20 How much change would you get from £10 if you spent £2.08 and £1.46?

Question 21
 What does simplify mean?

Score

Due date	Thursday 1 st February 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB3.3

Name :

FB3.3

Question 1 Find the median 10, 10, 13, 12, 6	Question 2 Find the median 11, 13, 7, 13, 16	Question 3 Expand $5(3x + 7)$	Question 4 Expand $4x(5x - 7)$
Question 5 Work out the value of $10 + 3b^2$ when $b = 6$	Question 6 Work out the value of $30 + a$ when $a = 2$	Question 7 Work out $2 \times 2 + 3$	Question 8 Work out $3 + 3 \times 3 + 2$
Question 9 Simplify $7a + 2b + 3a + 6b$	Question 10 Simplify $9a + 5b - 4a + 3b$	Question 11 Work out $2.85 \times 1000 =$	Question 12 Work out $26.8 \times 100 =$
Question 13 Simplify $\frac{3}{21} =$	Question 14 Simplify $\frac{4}{44} =$	Question 15 Complete $15000 \text{ m} = \dots \text{ km}$	Question 16 Complete $35.2 \text{ m} = \dots \text{ cm}$
Question 17 Solve $x \div 12 = 5$	Question 18 Solve $6x + 5 = -19$	Question 19 How much change would you get from £10 if you spent £0.81 and £2.66?	Question 20 How much change would you get from £5 if you spent £1.61 and £1.83?

Question 21
What is a circumference?

Score

Due date	Thursday 8 th February 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB3.4

Name :

FB3.4

Question 1 Calculate the mean 2, 22, 3, 7, 51	Question 2 Calculate the mean 16, 14, 22, 5, 28	Question 3 Expand $2(7x + 1)$	Question 4 Expand $6x(13 + 11x)$
Question 5 Work out the value of $27 + 2b$ when $b = 10$	Question 6 Work out the value of $4c - 10$ when $c = 5$	Question 7 Work out $5 + 4 \times 5$	Question 8 Work out $3 + 3 \times 2 - 8$
Question 9 Simplify $10a + 3b + 6a + 6b$	Question 10 Simplify $7a + 2b + 8a - 6b$	Question 11 Work out $72.7 \times 10 =$	Question 12 Work out $27.3 \times 100 =$
Question 13 Simplify $\frac{21}{35} =$	Question 14 Simplify $\frac{21}{33} =$	Question 15 Complete $150 \text{ cm} = \dots \text{ m}$	Question 16 Complete $200 \text{ mm} = \dots \text{ cm}$
Question 17 Solve $x \div 11 = 5$	Question 18 Solve $7x - 4 = -0.5$	Question 19 How much change would you get from £10 if you spent £1.83 and £1.55?	Question 20 How much change would you get from £10 if you spent £3.42 and £1.77?

Question 21
 What is perimeter?

Score

Due date	Thursday 22 nd February 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB3.5

Name :

FB3.5

Question 1 Calculate the mean 21, 21, 7, 21, 20	Question 2 Find the median 8, 25, 17, 21, 9	Question 3 Expand $4(11 + 2x)$	Question 4 Expand $2x(5 + 11x)$
Question 5 Work out the value of $4a - 10$ when $a = 3$	Question 6 Work out the value of $25 + 6c$ when $c = 2$	Question 7 Work out $2 \times 4 - 4$	Question 8 Work out $43 - 11 \times 4$
Question 9 Simplify $8a + 3b + 8a + 6b$	Question 10 Simplify $7a + 4b + 3a + 4b$	Question 11 Work out $2.494 \times 100 =$	Question 12 Work out $4.17 \times 100 =$
Question 13 Simplify $\frac{25}{40} =$	Question 14 Simplify $\frac{24}{84} =$	Question 15 Complete $250 \text{ mm} = \dots \text{ cm}$	Question 16 Complete $10500 \text{ m} = \dots \text{ km}$
Question 17 Solve $x \times 5 = 50$	Question 18 Solve $13x + 2 = -24$	Question 19 How much change would you get from £10 if you spent £3.45 and £1.99?	Question 20 How much change would you get from £5 if you spent £1.47 and £1.86?

Question 21
What is an improper fraction?

Score

Due date	Thursday 29 th February 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB4.1

Name :

FB4.1

Question 1 Find 50% of £150	Question 2 Find 25% of £172	Question 3 Round 341 to the nearest 10	Question 4 Round 1043 to the nearest 100
Question 5 Round 0.6 correct to 1 decimal place	Question 6 Round 1.16 correct to 1 decimal place	Question 7 Work out $9 + 11 \times 2$	Question 8 Work out $10 \times (9 - 5)$
Question 9 What is the 1st prime number?	Question 10 List the factors of 11	Question 11 Work out $90 \times 30 =$	Question 12 Work out $68 \times 80 =$
Question 13 Simplify $26 : 39$	Question 14 Simplify $132 : 48$	Question 15 What is the time 50 minutes after 4:20?	Question 16 What is the time 50 minutes after 1:40?
Question 17 Work out $0.4 \times 100 =$	Question 18 Work out $1.895 \times 10 =$	Question 19 Simplify $6a + 2b + 3a + 4b$	Question 20 Simplify $9a + 5b + 3a + 3b$

Question 21
What is 'data'?

Score

Due date	Thursday 7 th March 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB4.2

Name :

FB4.2

Question 1 Find 50% of £74	Question 2 Find 25% of £292	Question 3 Round 3167 to the nearest 10	Question 4 Round 3837 to the nearest 100
Question 5 Round 0.98 correct to 1 decimal place	Question 6 Round 8.65 correct to 1 decimal place	Question 7 Work out $8 \times 3 - 2$	Question 8 Work out $10 \times (9 - 3)$
Question 9 List the factors of 16	Question 10 What is the 10th multiple of 6?	Question 11 Work out $30 \times 90 =$	Question 12 Work out $67 \times 30 =$
Question 13 Simplify $20 : 12$	Question 14 Simplify $12 : 66$	Question 15 What is the time 35 minutes after 11:25?	Question 16 What is the time 5 minutes before 8:50?
Question 17 Work out $44 \times 100 =$	Question 18 Work out $2.484 \times 100 =$	Question 19 Simplify $9a + 4b + 7a + 7b$	Question 20 Simplify $5a + 2b + 8a + 7b$

Question 21Circle any coefficients in the expression $3x^2 + 2x + 4$

Score

Due date	Thursday 14 th March 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB4.3

Name :

FB4.3

Question 1 Find 50% of £76	Question 2 Find 25% of £192	Question 3 Round 4734 to the nearest 10	Question 4 Round 328 to the nearest 100
Question 5 Round 0.59 correct to 1 decimal place	Question 6 Round 3.35 correct to 1 decimal place	Question 7 Work out $5 \times 3 + 5$	Question 8 Work out $3 \times 3 + 2$
Question 9 What is the 9th multiple of 3?	Question 10 What is the 7th prime number?	Question 11 Work out $60 \times 90 =$	Question 12 Work out $69 \times 20 =$
Question 13 Simplify $60 : 75$	Question 14 Simplify $10 : 22$	Question 15 What is the time 10 minutes before 1:55?	Question 16 What is the time 5 minutes before 1:50?
Question 17 Work out $219.8 \times 10 =$	Question 18 Work out $29.5 \times 1000 =$	Question 19 Simplify $9a + 2b + 5a + 8b$	Question 20 Simplify $10a + 3b - 4a + 5b$

Question 21Circle any variables in the expression $3x^2 + 2x + 4$

Score

Due date	Thursday 21 st March 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB4.4

Name :

FB4.4

Question 1 Find 50% of £172	Question 2 Find 25% of £80	Question 3 Round 926 to the nearest 10	Question 4 Round 2401 to the nearest 100
Question 5 Round 0.31 correct to 1 decimal place	Question 6 Round 1.84 correct to 1 decimal place	Question 7 Work out $48 - 4 \times 4$	Question 8 Work out $2 \times 3 - 2$
Question 9 What is the 8th prime number?	Question 10 What is the 3rd prime number?	Question 11 Work out $80 \times 60 =$	Question 12 Work out $41 \times 20 =$
Question 13 Simplify $60 : 15$	Question 14 Simplify $44 : 55$	Question 15 What is the time 10 minutes after 3:40?	Question 16 What is the time 15 minutes before 7:20?
Question 17 Work out $10.74 \times 10 =$	Question 18 Work out $15.42 \times 10 =$	Question 19 Simplify $10a + 4b + 7a + 8b$	Question 20 Simplify $8a + 4b - 7a + 3b$

Question 21Circle any constants in the expression $3x^2 + 2x + 4$

Score

Due date	Thursday 28 th March 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB4.5

Name :

FB4.5

Question 1 Find 50% of £76	Question 2 Find 25% of £168	Question 3 Round 719 to the nearest 100	Question 4 Round 2312 to the nearest 100
Question 5 Round 0.76 correct to 1 decimal place	Question 6 Round 1.26 correct to 1 decimal place	Question 7 Work out $59 - 12 \times 3$	Question 8 Work out $8 \times (3 + 3)$
Question 9 What is the 5th prime number?	Question 10 List the factors of 49	Question 11 Work out $80 \times 50 =$	Question 12 Work out $42 \times 90 =$
Question 13 Simplify $28 : 56$	Question 14 Simplify $9 : 6$	Question 15 What is the time 40 minutes before 10:45?	Question 16 What is the time 45 minutes before 6:15?
Question 17 Work out $13.98 \times 1000 =$	Question 18 Work out $5.73 \times 100 =$	Question 19 Simplify $9a + 3b + 6a + 6b$	Question 20 Simplify $9a + 5b - 8a + 4b$

Question 21
What is an 'exponent'?

Score

Due date	Thursday 11 th April 2024
Name	



GCSE Maths homework 11b2

Year 11 terms 3 & 4

Knowledge Check
Homework Sheet FB4.6

Name :

FB4.6

Question 1 Find 50% of £130	Question 2 Find 25% of £96	Question 3 Round 4823 to the nearest 100	Question 4 Round 4226 to the nearest 100
Question 5 Round 0.49 correct to 1 decimal place	Question 6 Round 3.74 correct to 1 decimal place	Question 7 Work out $11 + 6 \times 5$	Question 8 Work out $7 \times (4 + 5)$
Question 9 What is the 7th prime number?	Question 10 List the factors of 34	Question 11 Work out $20 \times 90 =$	Question 12 Work out $53 \times 50 =$
Question 13 Simplify $60 : 15$	Question 14 Simplify $88 : 40$	Question 15 What is the time 30 minutes after 11:15?	Question 16 What is the time 30 minutes after 6:25?
Question 17 Work out $2.074 \times 100 =$	Question 18 Work out $144.9 \times 100 =$	Question 19 Simplify $5a + 5b + 4a + 8b$	Question 20 Simplify $6a + 4b - 6a - 3b$

Question 21
What is a trapezium?

Score