

Due date	Thursday 14 th September 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA1.1

Name :

FA1.1

Question 1 What is the 9th multiple of 15?	Question 2 List the factors of 49	Question 3 Work out $76.5 + 25.2 =$	Question 4 Work out $5.56 + 3.29 =$
Question 5 Work out $10 + -5 =$	Question 6 Work out $-8 + 6 =$	Question 7 Work out $29 \times 34 =$	Question 8 Work out $40 \times 30 =$
Question 9 Work out $12 \times 0.4 =$	Question 10 Work out $5 \times 0.4 =$	Question 11 Work out $4 \times 4 + 3$	Question 12 Work out $11 \times (4 + 3)$
Question 13 Simplify $10a + 3b - 8a - 4b$	Question 14 Simplify $6a + 2b + 5a - 6b$	Question 15 Solve $13x + 3 = -10$	Question 16 Solve $9x - 4 = 23$
Question 17 Find the median 19, 15, 9, 10, 25	Question 18 Find the median 13, 24, 18, 13, 21	Question 19 Calculate the perimeter of a square with side length 11 cm	Question 20 Calculate the area of a rectangle with height 14 cm and length 9 cm

Question 21

What does 'significant figure' mean?

Score

Due date	Thursday 21 st September 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA1.2

Name :

FA1.2

Question 1 What is the 15th square number?	Question 2 List the factors of 25	Question 3 Work out $42.4 + 32.9 =$	Question 4 Work out $6.27 + 6.01 =$
Question 5 Work out $10 - 1 =$	Question 6 Work out $-2 + 1 =$	Question 7 Work out $69 \times 78 =$	Question 8 Work out $82 \times 61 =$
Question 9 Work out $2 \times 0.3 =$	Question 10 Work out $4 \times 1.2 =$	Question 11 Work out $4 \times 4 + 5$	Question 12 Work out $54 - 8 \times 2$
Question 13 Simplify $6a + 4b + 3a + 7b$	Question 14 Simplify $9a + 3b + 3a + 6b$	Question 15 Solve $9x + 5 = 59$	Question 16 Solve $3x - 4 = 11$
Question 17 Calculate the mean 18, 3, 6, 10, 38	Question 18 Calculate the mean 14, 8, 10, 4, 44	Question 19 Calculate the perimeter of a square with side length 9 cm	Question 20 Calculate the perimeter of a rectangle with height 7 cm and length 9 cm

Question 21

What does 'direct proportion' mean?

Score

Due date	Thursday 28 th September 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA1.3

Name :

FA1.3

Question 1 What is the 6th cube number?	Question 2 What is the 5th cube number?	Question 3 Work out $66.5 + 45.2 =$	Question 4 Work out $8.2 + 7.15 =$
Question 5 Work out $7 - -3 =$	Question 6 Work out $6 + -7 =$	Question 7 Work out $82 \times 20 =$	Question 8 Work out $73 \times 20 =$
Question 9 Work out $9 \times 0.4 =$	Question 10 Work out $12 \times 0.7 =$	Question 11 Work out $5 \times 4 - 3$	Question 12 Work out $9 + 5 \times 5$
Question 13 Simplify $8a + 4b - 7a - 3b$	Question 14 Simplify $9a + 5b - 7a + 6b$	Question 15 Solve $11x + 2 = 68$	Question 16 Solve $8x + 4 = -12$
Question 17 Find the median 13, 22, 21, 25, 15	Question 18 Find the median 10, 11, 14, 20, 10	Question 19 Calculate the perimeter of a regular pentagon with side length 7 cm	Question 20 Calculate the area of a square with side length 12 cm

Question 21

What is a prism?

Score

Due date	Thursday 5 th October 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA1.4

Name :

FA1.4

Question 1 What is the 10th multiple of 7?	Question 2 What is the 7th multiple of 5?	Question 3 Work out $47.8 + 22.7 =$	Question 4 Work out $7.32 + 4.76 =$
Question 5 Work out $-8 + -3 =$	Question 6 Work out $-3 - 10 =$	Question 7 Work out $69 \times 55 =$	Question 8 Work out $45 \times 30 =$
Question 9 Work out $7 \times 1.2 =$	Question 10 Work out $11 \times 0.2 =$	Question 11 Work out $2 + 9 \times 5$	Question 12 Work out $34 - 8 \times 4$
Question 13 Simplify $5a + 4b + 8a + 4b$	Question 14 Simplify $9a + 2b - 6a + 5b$	Question 15 Solve $11x + 6 = 28$	Question 16 Solve $11x + 4 = 81$
Question 17 Calculate the mean 18, 7, 18, 11, 21	Question 18 Find the median 24, 11, 25, 6, 8	Question 19 Calculate the area of a square with side length 9 cm	Question 20 Calculate the perimeter of a regular pentagon with side length 8 cm

Question 21

What does perpendicular mean?

Score

Due date	Thursday 12 th October 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA1.5

Name :

FA1.5

Question 1 What is the 5th cube number?	Question 2 What is the 3rd cube number?	Question 3 Work out $22.6 + 13.2 =$	Question 4 Work out $9.39 + 2.21 =$
Question 5 Work out $-5 + -9 =$	Question 6 Work out $-8 - 7 =$	Question 7 Work out $67 \times 48 =$	Question 8 Work out $33 \times 78 =$
Question 9 Work out $70 \times 0.1 =$	Question 10 Work out $11 \times 0.3 =$	Question 11 Work out $11 + 9 \times 5$	Question 12 Work out $59 - 5 \times 2$
Question 13 Simplify $7a + 5b + 6a + 8b$	Question 14 Simplify $9a + 5b - 8a + 8b$	Question 15 Solve $3x - 4 = 8$	Question 16 Solve $11x - 3 = 52$
Question 17 Find the median 16, 15, 15, 15, 6	Question 18 Find the median 14, 16, 11, 23, 10	Question 19 Calculate the area of a square with side length 12 cm	Question 20 Calculate the perimeter of a square with side length 15 cm

Question 21
What is a trapezium?

Score

Due date	Thursday 19 th October 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA1.6

Name :

FA1.6

Question 1 What is the 12th square number?	Question 2 What is the 9th square number?	Question 3 Work out $96.2 + 3.6 =$	Question 4 Work out $5.07 + 2.02 =$
Question 5 Work out $4 + 8 =$	Question 6 Work out $-10 - 1 =$	Question 7 Work out $76 \times 43 =$	Question 8 Work out $76 \times 13 =$
Question 9 Work out $0.8 \times 10 =$	Question 10 Work out $2 \times 0.6 =$	Question 11 Work out $28 - 12 \times 3$	Question 12 Work out $5 \times 5 - 4$
Question 13 Simplify $7a + 3b + 4a - 8b$	Question 14 Simplify $10a + 3b - 3a + 6b$	Question 15 Solve $3x - 4 = 0.5$	Question 16 Solve $14x - 6 = 8$
Question 17 Find the median 13, 16, 11, 7, 5	Question 18 Find the median 22, 7, 12, 6, 21	Question 19 Calculate the area of a square with side length 3 cm	Question 20 Calculate the perimeter of a regular octagon with side length 7 cm

Question 21
How many sides has a dodecagon?

Score

Due date	Thursday 9 th November 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA1.7

Name :

FA1.7

Question 1 What is the 8th multiple of 14?	Question 2 What is the 5th cube number?	Question 3 Work out $89.8 + 58.2 =$	Question 4 Work out $7.47 + 1.48 =$
Question 5 Work out $-4 - 6 =$	Question 6 Work out $8 - -5 =$	Question 7 Work out $40 \times 73 =$	Question 8 Work out $47 \times 29 =$
Question 9 Work out $7 \times 0.5 =$	Question 10 Work out $5 \times 1.2 =$	Question 11 Work out $4 \times 5 + 5$	Question 12 Work out $4 \times (2 + 5)$
Question 13 Simplify $5a + 2b + 4a + 5b$	Question 14 Simplify $6a + 3b - 3a - 3b$	Question 15 Solve $6x - 4 = -7$	Question 16 Solve $9x + 4 = 67$
Question 17 Find the median 13, 7, 15, 8, 6	Question 18 Calculate the mean 13, 8, 8, 5, 16	Question 19 Calculate the perimeter of a regular pentagon with side length 6 cm	Question 20 Calculate the perimeter of a regular octagon with side length 5 cm

Question 21

What is a polygon?

Score

Due date	Thursday 16 th November 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA2.1

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 l.....350 ml ($<$ = or $>$)	Question 14 Complete 0.3l.....380ml ($<$ = 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 $1.1 \text{ kg} : 2200 \text{ g}$

Question 21

What does 'significant figure' mean?

Score

Due date	Thursday 23 rd November 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA2.2

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 30 th November 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA2.3

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 7 th December 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA2.4

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 $30 \text{ mm} : 21 \text{ cm}$

Question 21
What does perpendicular mean?

Score

Due date	Thursday 14 th December 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA2.5

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 $7 \text{ kg} : 4200 \text{ g}$

Question 21
What is a trapezium?

Score

Due date	Thursday 21 st December 2023
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA2.6

Name :

FA2.6

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 $200 \text{ cm} \dots\dots 2.6 \text{ m}$ ($<$ = or $>$)	Question 14 Complete $0.18 \text{ l} \dots\dots 240 \text{ ml}$ ($<$ = 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 $120 \text{ mm} : 6 \text{ cm}$

Question 21
How many sides has a dodecagon?

Score

Due date	Thursday 11 th January 2024
Name	



Year 11

Class 11r3 and r4

Homework

Knowledge Check

Homework Sheet FA2.7

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

What is a polygon?

