Name :

Question 1	Question 2	Question 3	Question 4
Express 696000 in standard form	Express 6300 in standard form	Expand 3x(2 + 11x)	Expand $5x^3(5x + 1)$

Question 5	Question 6	Question 7	Question 8
Work out 73 × 75 =	Work out 2.9 × 19 =	Round 749168 correct to 2 significant figures	Round 2117 correct to 2 significant figures

Question 9	Question 10	Question 11	Question 12
State the gradient of the line y = 5 - 5x	State the gradient of the line y = 3x - 4	Round 9.775 km to the nearest km	Round 4.624 km to the nearest 10 m

Question 13	Question 14	Question 15	Question 16
Sales fall from 800 per week to 520 per week. Calculate the percentage change	Sales rise from 2000 per week to 2500 per week. Calculate the percentage change	If 8 pens cost £2.80 how much would 10 pens cost?	If 7 pens cost £2.45 how much would 4 pens cost?

Question 17	Question 18	Question 19	Question 20
Solve 4x -1 = 3x - 5	Solve 3x - 3 =27 - 2x	State the exact value of sin 30°	State the exact value of cos 0°

Question 21
What does 'gradient' mean?

Score

Due date	Thursday 11th November 2021
Student number	
Name	

Year 10
Class 10r1

Homework

Knowledge Check
Homework Sheet FAA1.1

Name :

Question 1	Question 2	Question 3	Question 4
Express 5700000 in standard form	Express 7350000 in standard form	Expand 3x(5x - 1)	Expand $2x^2(5x - 11)$

Question 5	Question 6	Question 7	Question 8
Work out 34 × 57 =	Work out 7.3 × 72 =	Round 33216 correct to 2 significant figures	Round 725048 correct to 2 significant figures

Question 9	Question 10	Question 11	Question 12
State the gradient of the line y = 4 - 3x	State the gradient of the line y = 3 - 3x	Round 8.44 m to the nearest m	Round 7.618 km to the nearest 10 m

Question 13	Question 14	Question 15	Question 16
Sales fall from 8200 per week to 7790 per week. Calculate the percentage change	Sales rise from 900 per week to 1170 per week. Calculate the percentage change	If 5 pens cost £1.75 how much would 10 pens cost?	If 10 pens cost £40 how much would 6 pens cost?

Question 17	Question 18	Question 19	Question 20
Solve 6x - 5 = 5x - 4.5	Solve 7x - 4 = -2x - 40	State the exact value of cos 45°	State the exact value of tan 45°

Question 21
What is a 'significant figure'?

Score

Due date	Thursday 18th November 2021
Student number	
Name	

Year 10
Class10r1
Homework

Knowledge Check
Homework Sheet FAA1.2

Name :

Question 1	**Question 2**	**Question 3**	**Question 4**
Express 71600 in standard form	Express 69800 in standard form	Expand 5x(5x + 7)	Expand $3x^2(7x + 3)$

Question 5	**Question 6**	**Question 7**	**Question 8**
Work out 93 × 63 =	Work out 7.2 × 74 =	Round 1602 correct to 2 significant figures	Round 793 correct to 2 significant figures

Question 9	**Question 10**	**Question 11**	**Question 12**
State the gradient of the line y = 4 - 2x	State the gradient of the line y = 2x - 5	Round 9.496 km to the nearest 10 m	Round 6.846 m to the nearest cm

Question 13	**Question 14**	**Question 15**	**Question 16**
Sales fall from 200 per week to 150 per week. Calculate the percentage change	Sales rise from 4000 per week to 5400 per week. Calculate the percentage change	If 15 pens cost £3.75 how much would 20 pens cost?	If 8 pens cost £2.40 how much would 3 pens cost?

Question 17	**Question 18**	**Question 19**	**Question 20**
Solve 3x - 1 = 2x + 3	Solve 5x - 1 = 26 - 4x	State the exact value of sin 45°	State the exact value of cos 60°

Question 21
What is an 'alternate angle'?

Score

Due date	Thursday 25th November 2021
Student number	
Name	

Year 10

Class10r1

Homework

Knowledge Check

Homework Sheet FAA1.3

Question 1 Express 26900000 in standard form	**Question 2** Express 5080000 in standard form	**Question 3** Expand 5x(11x + 13)	**Question 4** Expand $4x^2(5x - 3)$
Question 5 Work out 44 × 33 =	**Question 6** Work out 7.5 × 52 =	**Question 7** Round 1825 correct to 2 significant figures	**Question 8** Round 672 correct to 2 significant figures
Question 9 State the gradient of the line y = 2x + 5	**Question 10** State the gradient of the line y = 6x + 2	**Question 11** Round 17.87 m to the nearest m	**Question 12** Round 1.168 m to the nearest cm
Question 13 Sales fall from 300 per week to 270 per week. Calculate the percentage change	**Question 14** Sales rise from 3400 per week to 4250 per week. Calculate the percentage change	**Question 15** If 8 pens cost £2.40 how much would 12 pens cost?	**Question 16** If 10 pens cost £30 how much would 9 pens cost?
Question 17 Solve 8x - 5 = 7x - 4.5	**Question 18** Solve 5x - 1 = 20 - 2x	**Question 19** State the exact value of sin 30°	**Question 20** State the exact value of cos 90°

Question 21
What does 'evaluate' mean?

Score

Due date	Thursday 2nd December 2021
Student number	
Name	

Year 10
Class10r1
Homework

Knowledge Check
Homework Sheet FAA1.4

Name :

Question 1	**Question 2**	**Question 3**	**Question 4**
Express 7070 in standard form	Express 154000 in standard form	Expand 2x(11x - 3)	Expand $3x^4(5x + 7)$

Question 5	**Question 6**	**Question 7**	**Question 8**
Work out 68 × 57 =	Work out 2 × 77 =	Round 37951 correct to 2 significant figures	Round 505 correct to 2 significant figures

Question 9	**Question 10**	**Question 11**	**Question 12**
State the gradient of the line y = 2 - 2x	State the gradient of the line y = 6x - 2	Round 843 mm to the nearest cm	Round 613 mm to the nearest cm

Question 13	**Question 14**	**Question 15**	**Question 16**
Sales fall from 600 per week to 420 per week. Calculate the percentage change	Sales rise from 4500 per week to 5400 per week. Calculate the percentage change	If 8 pens cost £1.60 how much would 13 pens cost?	If 14 pens cost £5.60 how much would 12 pens cost?

Question 17	**Question 18**	**Question 19**	**Question 20**
Solve 5x - 3 = 4x - 1	Solve 8x + 1 = 37 - 4x	State the exact value of sin 90°	State the exact value of tan 60°

Question 21
What does 'direct proportion' mean?

Score

Due date	Thursday 9th December 2021
Student number	
Name	

Year 10

Class10r1

Homework

Knowledge Check

Homework Sheet FAA1.5

Name :

Question 1 Express 83100 in standard form	**Question 2** Express 2700000 in standard form	**Question 3** Expand 5x(2x + 3)	**Question 4** Expand $4x^3(7x + 3)$
Question 5 Work out 88 × 80 =	**Question 6** Work out 1.8 × 58 =	**Question 7** Round 5068 correct to 2 significant figures	**Question 8** Round 74852 correct to 2 significant figures
Question 9 State the gradient of the line y = 2x - 4	**Question 10** State the gradient of the line y = 6x - 4	**Question 11** Round 3.891 m to the nearest cm	**Question 12** Round 5.368 km to the nearest 10 m
Question 13 Sales fall from 6000 per week to 4800 per week. Calculate the percentage change	**Question 14** Sales rise from 6000 per week to 6900 per week. Calculate the percentage change	**Question 15** If 7 pens cost £4.55 how much would 12 pens cost?	**Question 16** If 8 pens cost £5.20 how much would 7 pens cost?
Question 17 Solve 7x - 5 = 5x - 9	**Question 18** Solve 6x - 5 = 17 - 5x	**Question 19** State the exact value of cos 30°	**Question 20** State the exact value of tan 30°

Question 21
What does 'estimate' mean?

Score

Due date	Thursday 16th December 2021
Student number	
Name	

Year 10

Class10r1

Homework

Knowledge Check

Homework Sheet FAA1.6

Name :

Question 1 Express 8440000 in standard form	**Question 2** Express 77000 in standard form	**Question 3** Expand 5x(3x - 5)	**Question 4** Expand $6x^4(7x + 11)$
Question 5 Work out 69 × 82 =	**Question 6** Work out 6.8 × 54 =	**Question 7** Round 671 correct to 2 significant figures	**Question 8** Round 5953 correct to 2 significant figures
Question 9 State the gradient of the line y = 5 - 2x	**Question 10** State the gradient of the line y = 3x - 3	**Question 11** Round 7.117 km to the nearest km	**Question 12** Round 9.851 km to the nearest 10 m
Question 13 Sales fall from 400 per week to 380 per week. Calculate the percentage change	**Question 14** Sales rise from 6300 per week to 8190 per week. Calculate the percentage change	**Question 15** If 15 pens cost £3.75 how much would 20 pens cost?	**Question 16** If 12 pens cost £7.20 how much would 11 pens cost?
Question 17 Solve 4x -1 = 2x - 9	**Question 18** Solve 7x - 5 = - 6x - 31	**Question 19** State the exact value of cos 45°	**Question 20** State the exact value of sin 45°

Question 21
Name 4 parts of a circle?

Score

Due date	Thursday 6th January 2021
Student number	
Name	

Year 10
Class10r1
Homework

Knowledge Check
Homework Sheet FAA1.7