FOCUS 4 TASKS - Set 1

Each of the 30 topics is covered once within the 5 sheets

Sheet 1A

Use of Calculator (inc percentages)	
Expand and Simplify	Q2
Linear equations	Q3
Trigonometry	Q4
Rotations	Q5
Plans and Elevations	Q6

Sheet 1B

Two Way Tables
Expanding Double Brackets
Circles
Product of Prime Factors
Averages from a Table
Compound Measures

Sheet 1C

Exchange Rates	Q1
Translations	Q2
Sequences - nth term	Q3
Straight Line Graphs	Q4
Estimation	Q5
Enlargements	Q6

Sheet 1D

Probability from a Table
Pythagoras
Reflections
Standard Form
Averages from Grouped Data
Equivalence

Sheet 1E

Scatter Graphs	Q1
Alternate and Corresponding Angles	Q2
Index Laws	Q3
Inequalities	Q4
Volume	Q5
Proportion	Q6

1) 58 + 98 =	2) 96 - 59	3) 6 × 7
4) 5 ÷ 20	5) $\frac{2}{3} \times \frac{1}{4}$	6) Write in ascending order 0.11, 0.1, 0.101,
7) 15% of £480	8) A distance of 5 km is represented as 10 cm on a map. What is the scale of the map?	9) Divide £320 in the ratio 3 : 5

QUESTION 1	QUESTION 2	QUESTION 3
Work out 2.4% of £244	Expand and simplify $2(2a + b) + 3(a + 2b)$	Solve $5x + 3 = 3x + 17$
$\frac{23}{24}$ of £45		
QUESTION 4	QUESTION 5	QUESTION 6
Calculate x correct to 1 decimal place 52° 5 cm	Rotate triangle A, 90° clockwise about centre (0,0) .Label your triangle B 5 4 3 2 1 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Draw the plan and side elevation

FOCUS 4 TASK 1B

NAME

1) 39 +76 =	2) 82 - 47	3) 9 × 8
4) 8 ÷ 16	$5) \ \frac{1}{5} \times \frac{5}{6}$	6) Write in ascending order 0.2, 0.052, 0.502
7) 20% of £68	8) A distance of 2 km is represented as 10 cm on a map. What is the scale of the map?	9) Divide £105 in the ratio 7 : 8

QUESTION 1			N 1		QUESTION 2	QUESTION 3
Harvey asked 100 students about types of films they enjoyed. Complete the 2 way table		Expand and simplify $(x + 7)(x + 3)$	Calculate the area of the circle. Give your answer correct to 1 decimal place)			
	Comedy	Action	Thriller	Total		
Female		23				1: 25
Male	17			42		radius = 2.5 cm
Total		44	31			
	1	1				
	QUE	STIOI	N 4		QUESTION 5	QUESTION 6
Express 56 as a product of prime factors			duct of	f	Calculate the mean x f 1 5 2 8 3 10 4 11 5 6 What is the modal value?	A car travels for 30 minutes and covers a distance of 24 miles. Calculate the average speed.

1) 89+37 =	2) 85 - 58	3) 9 × 12
4) 9÷ 36	$5) \ \frac{5}{8} \times \frac{4}{5}$	6) Write in ascending order 0.5, 0.501, 0.051
7) 35% of £120	8) A distance of 200 m is represented as 10 cm on a map. What is the scale of the map?	9) Divide £480 in the ratio 7 : 9

QUESTION 1	QUESTION 2	QUESTION 3
If the exchange rate is $£1 = £1.10$ Work out the missing values a) $£350 = £$ b) $£28.60 = £$	Describe the single transformation that maps shape A onto shape B 10 9 8 7 6 5 4 3 2 1 2 3 4 5 6 7 8 9 10	Find the nth term of 1, 5, 9, 13, 17 What is the 50 term in the sequence?
QUESTION 4	QUESTION 5	QUESTION 6
Complete the table of values for $x + y = 7$ and plot the graph $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Estimate $2.59 \times 15.43 - 3.98^2$	Enlarge the triangle with centre (0,0) and scale factor 2 10 9 8 7 6 5 4 3 2 1 1 2 3 4 5 6 7 8 9 10

FOCUS 4 TASK 1D

NAME

1) 68 +76 =	2) 92 - 48	3) 8 × 8
4) 9 ÷ 12	5) $\frac{3}{4} \times \frac{5}{6}$	6) Write in ascending order
,	37 4 6	0.3, 0.203, 0.32
7) 40% of £84	8) A distance of 10 m is represented as 10 cm on a map. What is the scale of the map?	9) Divide £520 in the ratio 6 : 7

QUESTION 1					QUESTION 2	QUESTION 3
The table shows the probability of scoring different numbers on a spinner					Calculate x correct to 1 decimal place	Reflect triangle A in the line y = 3. Label your triangle B
Number	1	2	3	4		8 7
Probability	$\frac{2}{10}$	$\frac{2}{5}$	$\frac{1}{10}$		5 cmx	6
Calculate the probability of scoring a 4					8 cm	3 2
Calculate the probability scoring an even number						1 2 3 4 5 6 7 8
QUESTION 4					QUESTION 5	QUESTION 6
Express in standard form					Calculate an estimate for the	Express
110000000					mean.	0.24 as a fraction in its lowest form
0.000052					40 ≤ t < 45 7 45 ≤ t < 50 6	$\frac{2}{25}$ as a percentage

FOCUS 4 TASK 1E

1) 74 +76 =	2) 92 - 38	3) 7 × 8
4) 15 ÷ 20	5) $\frac{7}{10} \times \frac{3}{14}$	6) Write in ascending order 0.5, 0.505, 0.055
7) 95% of £102	8) A distance of 50 m is represented as 10 cm on a map. What is the scale of the map?	9) Divide £1044 in the ratio 1 : 8

QUESTION 1	QUESTION 2	QUESTION 3
The graphs show the age and value of cars 20 15 16 10 20 16 10 20 20 40 10 Circle the outlier Estimate the value of a 3 year old car	Calculate x and y	Simplify $(2x^2y)^3$ Express 3^{-3} as a fraction
QUESTION 4	QUESTION 5	QUESTION 6
Solve $3x - 6 \ge x - 2$ What is the smallest integer	Calculate the volume of a sphere with radius 7 cm using the formula $V = \frac{4}{3}\pi r^3$ (answer correct to 1 decimal place)	A recipe for 6 pies uses 160g of flour. How much flour will be needed to make 21 pies?
value of x that satisfies the inequality?		