# FOCUS 5 TASKS - Set 1

Each of the 36 topics is covered once within the 6 sheets

#### Sheet 1A

Two-way tables	Q1
Use of a calculator	Q2
Quadratic and cubic graphs	Q3
Proportion	Q4
Venn Diagrams	Q5
Compound Measures	Q6

#### Sheet 1B

Simultaneous equations	Q1
Trigonometry - finding an angle	Q2
Estimation	Q3
Percentages	Q4
Equivalence	Q5
Reflections	Q6

#### Sheet 1C

Exchange rates	Q1
Product of prime factors	Q2
Probability from a Table	Q3
Averages from Grouped Data	Q4
Translations	Q5
Scatter graphs	Q6

#### Sheet 1D

Indices	Q1
Trigonometry - finding sides	Q2
Volume	Q3
Standard Form	Q4
Alternate and corresponding angles	Q5
Pythagoras /Trigonometry	Q6

#### Sheet 1E

Circles	Q1
Plans and elevations	Q2
Expand and Simplify	Q3
Sequences - nth term	Q4
Pythagoras	Q5
Rotations	Q6

### Sheet 1F

Averages from a Table	Q1
Vectors	Q2
Enlargements	Q3
Inequalities	Q4
Straight Line Graphs	Q5
Expanding Double Brackets	Q6

# FOCUS 5 TASK 1A

Work out 517 + 358	Work out 24 × 32	Work out $\frac{3}{4} + \frac{1}{5}$	Divide £350 in the ratio 3 : 11
Work out 852 - 664	Work out 884÷26	What is 85% of £480?	Solve 5x - 2 = 2x + 19

QUEST	ION 1				QUESTION 2	QUESTION 3
es of : 2 way	letoT	47			Work out a) <b>2.2<sup>5</sup></b> (answer correct to 2 d.p.)	Complete the table of values for $y = x^2 - 1$ and plot the graph x -2 -1 = 0 1 2 3 y = -1
oout typ olete th€	Thriller			29		<b>10</b>
adults al d. Comp	noitoA	19		35		8
enjoyed	γрәшоጋ		25		b) 67% of £45.00	
Hazel aske films they table		Men	Women	Total		-3 -2 -1 1 2 3 4 5 -2
QUEST	ION 4				QUESTION 5	QUESTION 6
A recipe for 6 people uses 250g of flour. How much flour will be needed to make the recipe for 15 people?		Here is a Venn diagram $ \begin{array}{c}                                     $	A car travels for 2 hours 15 minutes at an average speed of 64 mph. Calculate the distance travelled.			

# FOCUS 5 TASK 1B

NAME

Work out 658 + 184	Work out 35 × 34	Work out $\frac{3}{8} - \frac{1}{5}$	Divide £180 in the ratio 7 : 5
Work out 706 - 325	Work out 1404÷26	What is 15% of £54?	Solve 6(x + 1) = 3

QUESTION 1	QUESTION 2	QUESTION 3
Solve the simultaneous equations 2x + y = 3 x + y = 1	Calculate x Give your answer to the nearest degree	Estimate <u>453 + 254</u> <u>5.2 × 3.8</u>
QUESTION 4	QUESTION 5	QUESTION 6
Calculate 15% of £420 Increase £320 by 10%	Express $\frac{3}{20}$ as a percentage The ratio of blue counters to red counters in a bag is 3 : 5. What fraction of the counters are red?	Reflect triangle A in the line $x = 4$ . Label your triangle B

# FOCUS 5 TASK 1C

Work out 78 + 478	Work out 3.5 × 14	Work out $\frac{3}{8} \times \frac{1}{6}$	Divide £168 in the ratio 2 : 5
Work out 824 - 698	Work out 1134÷18	What is 2% of £540?	Solve 5x - 3 = 15 - x

QUESTION 1	QUESTION 2	QUESTION 3
If the exchange rate is f1 = \$1.25	Express 120 as the product of prime factors	The table shows the probability of picking different colour pins from a box
Work out the missing values		ColourRedGreenBluePinkProbability0.20.30.1
a) £500 =\$		Calculate the probability of picking Green
b) \$30.50 = £		Calculate the probability of picking Red or Pink
QUESTION 4	QUESTION 5	QUESTION 6
Calculate an estimate of the mean height.	Describe the single transformation that maps shape A onto shape B	umber of ice
$0 \le h < 5$ 21 $5 \le h < 10$ 5 $10 \le h < 15$ 9 $15 \le h < 20$ 3 $20 \le h < 25$ 2		The average temperature and nu creams sold is recorded.

### FOCUS 5 TASK 1D

NAME

Work out 685 + 197	Work out 2.8 ×1.2	Work out $\frac{3}{5} \div \frac{2}{15}$	Divide £231 the ratio 4 : 7
Work out 905 - 469	Work out 901÷17	What is 2.5% of £80?	Solve $\frac{x-4}{5} = 2$



# FOCUS 5 TASK 1E

Work out 872 + 48	Work out 36 × 3.6	Work out $\frac{3}{4} + \frac{1}{5}$	Divide £350 in the ratio 3 : 11
Work out 602 - 487	Work out 1248÷26	What is 95% of £640?	Solve 2x = 6 - x



# FOCUS 5 TASK 1F

Work out 655 + 247	Work out 24 × 32	Work out $\frac{3}{4} - \frac{1}{5}$	Divide £350 in the ratio 3 : 2
Work out 805 - 694	Work out 1710÷45	What is 55% of £560?	Solve $\frac{5x}{8} - 1 = 4$

QUESTION 1	QUESTION 2	QUESTION 3
Calculate the mean	$\boldsymbol{a} = \begin{pmatrix} 3 \\ -4 \end{pmatrix}$ and $\boldsymbol{b} = \begin{pmatrix} 2 \\ 5 \end{pmatrix}$	Describe fully the transformation that maps shape A onto B
x f 1 3	Work out as column vectors	
2     10       3     12       4     10       5     5	a) <b>a + b</b>	9 8 7 6 5 5
What is the modal value?	b) 3 <b>a – b</b>	
QUESTION 4	QUESTION 5	QUESTION 6
Write down the largest integer which satisfies the inequality 6x - 5 < 13	Complete the table of values for y = 2x + 1 and plot the graph x -2 -1 0 1 2 3 y -1 -1	Expand and simplify (x + 3)(x + 5)