## FOCUS 5 TASKS - Set 1

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

## Sheet 1A

| Two-way tables | Q 1 |
| :--- | :---: |
| Use of a calculator | Q 2 |
| Quadratic and cubic graphs | Q 3 |
| Proportion | Q 4 |
| Venn Diagrams | Q 5 |
| Compound Measures | Q 6 |

## Sheet 1 C

| Exchange rates | Q 1 |
| :--- | :---: |
| Product of prime factors | Q 2 |
| Probability from a Table | Q 3 |
| Averages from Grouped Data | Q 4 |
| Translations | Q 5 |
| Scatter graphs | Q 6 |

## Sheet $1 E$

| Circles | Q 1 |
| :--- | :---: |
| Plans and elevations | Q 2 |
| Expand and Simplify | Q 3 |
| Sequences - nth term | Q 4 |
| Pythagoras | Q 5 |
| Rotations | Q 6 |

Sheet 1B

| Simultaneous equations | Q 1 |
| :--- | :--- |
| Trigonometry - finding an angle | Q 2 |
| Estimation | Q 3 |
| Percentages | Q 4 |
| Equivalence | Q 5 |
| Reflections | Q 6 |

## Sheet 1D

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

## Sheet $1 F$

| Averages from a Table | Q 1 |
| :--- | :--- |
| Vectors | Q 2 |
| Enlargements | Q 3 |
| Inequalities | Q 4 |
| Straight Line Graphs | Q 5 |
| Expanding Double Brackets | Q 6 |

## SKILLS CHECK

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



## SKILLS CHECK

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



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

## QUESTION 1

If the exchange rate is $£ 1=\$ 1.25$
Work out the missing values
a) $£ 500=\$ . \ldots$.
b) $\$ 30.50=£ \ldots \ldots$

## QUESTION 4

Calculate an estimate of the mean height.

| Height | $f$ |  |  |
| :---: | :---: | :--- | :--- |
| $0 \leq h<5$ | 21 |  |  |
| $5 \leq h<10$ | 5 |  |  |
| $10 \leq h<15$ | 9 |  |  |
| $15 \leq h<20$ | 3 |  |  |
| $20 \leq h<25$ | 2 |  |  |

## QUESTION 2 QUESTION 3

Express 120 as the product of prime factors

The table shows the probability of picking different colour pins from a
box

| Colour | Red | Green | Blue | Pink |
| :--- | :--- | :--- | :--- | :--- |
| Probability | 0.2 |  | 0.3 | 0.1 |

Calculate the probability of picking Green

Calculate the probability of picking Red or Pink

## QUESTION 5

Describe the single transformation that maps shape A onto shape B


## QUESTION 6



## SKILLS CHECK

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


| QUESTION 1 | QUESTION 2 | QUESTION 3 |
| :---: | :---: | :---: |
| Simplify $2 a^{3} \times 3 a$ <br> Write $3^{-2}$ as a fraction | Calculate x <br> Give your answer correct to 1 d.p. | Calculate the volume of the cone using $V=\frac{1}{3} \pi r^{2} h$ <br> (Answer correct to 1 d.p.) |
| QUESTION 4 | QUESTION 5 | QUESTION 6 |
| Express in standard form 102000 $0.000001$ | Calculate the value of $x$ and $y$ | Calculate X Give your answer correct to 1 d.p. |

## FOCUS 5 TASK 1E

## SKILLS CHECK

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


| QUESTION 1 | QUESTION 2 | QUESTION 3 |
| :---: | :---: | :---: |
| Calculate the area Give your answer correct to 1 d.p. | Draw the plan and side elevation | Expand and simplify $3(2 x+1)+2(x-2)$ |
| QUESTION 4 | QUESTION 5 | QUESTION 6 |
| Find the nth term of $0,4,8,12,16 \ldots$. <br> How many terms are less than 100? | Calculate $x$ <br> Give your answer correct to 1 d.p. | Rotate triangle $\mathrm{A}, 90^{\circ}$ clockwise about centre ( 0,0 ) .Label your triangle $B$. |


| Work out $655+247$ | Work out $24 \times 32$ | Work out $\frac{3}{4}-\frac{1}{5}$ | Divide $£ 350$ in the ratio <br> $3: 2$ |
| :--- | :--- | :--- | :--- |
| Work out $805-694$ | Work out $1710 \div 45$ | What is $55 \%$ of $£ 560 ?$ | Solve |
|  |  |  | $5 x$ |



