

FOCUS 3 TASKS - Set 5

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

Sheet 5A

Hire purchase problems	Q1
Conversions eg 5 miles = 8 km	Q2
Using a calculator	Q3
Types of numbers	Q4
Collecting like terms	Q5
Calculating the area of a trapezium	Q6

Sheet 5B

Calculating a fraction of a quantity	Q1
Equivalence	Q2
Working out the best buy	Q3
Working with directed numbers	Q4
Simple substitution	Q5
Reflecting in $y=a$ $x=b$ $y=\pm x$	Q6

Sheet 5C

Solving simple equations	Q1
Rearranging formulae	Q2
Identifying the gradient of the line	Q3
Plotting a frequency polygon	Q4
Using a pie chart	Q5
Calculating the mean	Q6

Sheet 5D

Multiplying and dividing decimals	Q1
Percentage of a quantity	Q2
Expressing as a percentage	Q3
Simplifying ratios	Q4
Conversion graphs	Q5
Using the n th term of a sequence	Q6

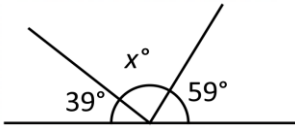
Sheet 5E

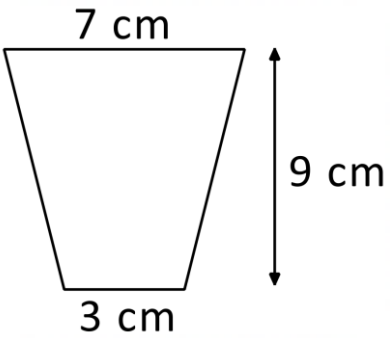
Using Given calculations	Q1
Dividing in a given ratio	Q2
Order of operations	Q3
Inequalities	Q4
Area of a triangle/parallelogram	Q5
Using sample spaces	Q6

FOCUS 3 TASK 5A

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SKILLS CHECK

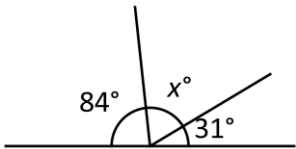
Complete $320 \text{ cm} = ? \text{ m}$	Round 3.25 correct to 1 decimal place	Work out $£15.45 \times 5 =$	Round 0.542 correct to 1 significant figure
Work out $£43.75 \div 7$	Work out $1245 + 845$	Work out the size of the angle marked x 	Work out $1205 - 657$

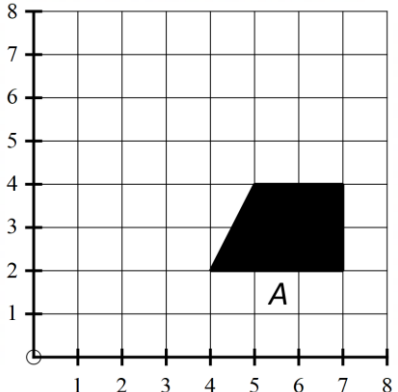
QUESTION 1	QUESTION 2	QUESTION 3
Kiana buys a car using hire purchase. She pays a £1500 deposit followed by 36 equal monthly payments. In total she pays £6900. How much was each monthly payment?	$8 \text{ km} = 5 \text{ miles}$ Complete $55 \text{ miles} = ? \text{ km}$ $280 \text{ km} = ? \text{ miles}$	Use a calculator to work out $\frac{\sqrt{12.5 + 36.5}}{0.05 \times 4}$ 3.6% of £150
QUESTION 4	QUESTION 5	QUESTION 6
List the factors of 28 What is lowest common multiple of 28 and 35?	Simplify $x + y + 2x + 3y$ $4x - y - 2x + y$	Calculate the area of the trapezium 

FOCUS 3 TASK 5B

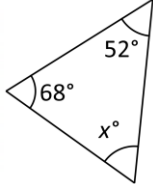
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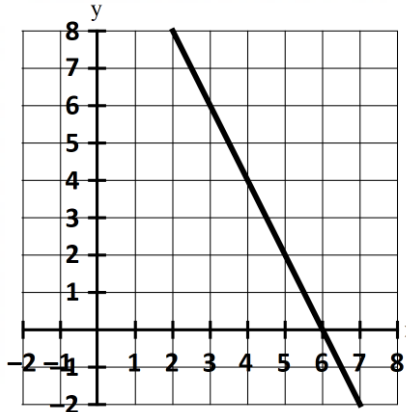
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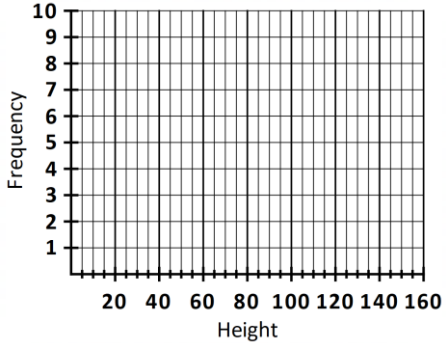
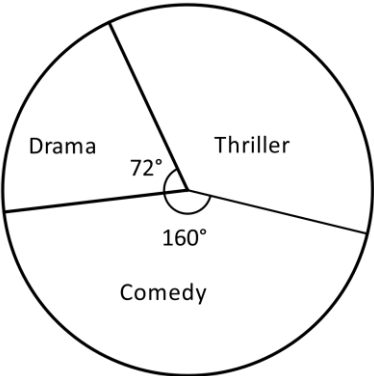
Complete $80 \text{ cm} = ? \text{ m}$	Round 10.08 correct to 1 decimal place	Work out $£8.45 \times 5 =$	Round 0.509 correct to 1 significant figure
Work out $£63.00 \div 6$	Work out $2564 + 1485$	Work out the size of the angle marked x 	Work out $1052 - 985$

QUESTION 1	QUESTION 2	QUESTION 3
Work out $\frac{2}{5}$ of £225 $\frac{2}{9}$ of the members of a club are juniors and the rest are adults. If there are 35 adult members how many members does the club have in total?	Express $\frac{13}{25}$ as a percentage The ratio of green to blue counters in a bag is 6 : 1. What fraction of the counters are blue?	Which is the best buy? Pack of 5 bananas for £3.25 Pack of 8 apples for £5.10
QUESTION 4	QUESTION 5	QUESTION 6
Work out a) $-6 + -2 =$ b) $-30 \div -10 =$	If $x = 3$ and $y = 2$ work out the value of $x^2 + y^2$ $4x - y^2$	Reflect shape A in the line $x = 4$ Label your shape B 

SKILLS CHECK

Complete $6.75 \text{ kg} = ? \text{ g}$	Round 0.0698 correct to 1 decimal place	Work out $£9.55 \times 14 =$	Round 11.065 correct to 1 significant figure
Work out $£180 \div 8$	Work out $2058 + 1255$	Work out the size of the angle marked x 	Work out $1986 - 987$

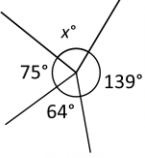
QUESTION 1	QUESTION 2	QUESTION 3
Solve a) $3x + 1 = 7$ b) $\frac{x-1}{2} = 3$	Make x the subject of the formula $y = \frac{x+a}{b}$	What is the gradient of the line? 

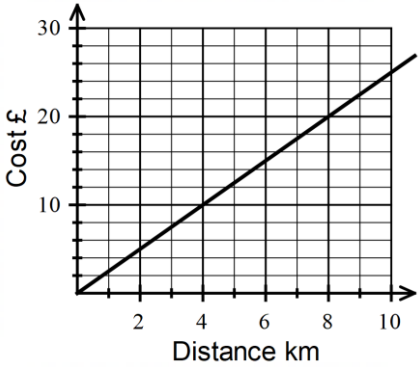
QUESTION 4	QUESTION 5	QUESTION 6																												
Plot a frequency polygon <table border="1" style="margin-bottom: 10px;"> <tr> <th>Height</th> <th>$0 < h \leq 40$</th> <th>$40 < h \leq 80$</th> <th>$80 < h \leq 120$</th> <th>$120 < h \leq 160$</th> </tr> <tr> <td>Freq</td> <td>6</td> <td>0</td> <td>4</td> <td>8</td> </tr> </table> 	Height	$0 < h \leq 40$	$40 < h \leq 80$	$80 < h \leq 120$	$120 < h \leq 160$	Freq	6	0	4	8	If 20 people chose Comedy, how many chose Thrillers? 	Calculate the mean <table border="1" style="margin-bottom: 10px;"> <thead> <tr> <th>Number of days</th> <th>Frequency</th> <th></th> </tr> </thead> <tbody> <tr> <td>11</td> <td>2</td> <td></td> </tr> <tr> <td>12</td> <td>0</td> <td></td> </tr> <tr> <td>13</td> <td>7</td> <td></td> </tr> <tr> <td>14</td> <td>6</td> <td></td> </tr> <tr> <td>15</td> <td>5</td> <td></td> </tr> </tbody> </table>	Number of days	Frequency		11	2		12	0		13	7		14	6		15	5	
Height	$0 < h \leq 40$	$40 < h \leq 80$	$80 < h \leq 120$	$120 < h \leq 160$																										
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Number of days	Frequency																													
11	2																													
12	0																													
13	7																													
14	6																													
15	5																													

FOCUS 3 TASK 5D

NAME

SKILLS CHECK

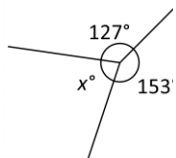
Complete $55 \text{ mm} = ? \text{ cm}$	Round 60.09 correct to 1 decimal place	Work out $£3.55 \times 16 =$	Round 0.0409 correct to 1 significant figure
Work out $£165.60 \div 9$	Work out $2059 + 1548$	Work out the size of the angle marked x 	Work out $2088 - 1693$

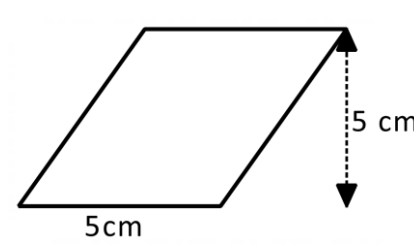
QUESTION 1	QUESTION 2	QUESTION 3
Work out $0.7 \times 0.8 =$ $9.6 \div 1.2 =$	Work out 10% of £94 15% of £94	Alex scored 256 out of 400 in a test. Express this as a percentage
QUESTION 4	QUESTION 5	QUESTION 6
Simplify $1.25 \text{ km} : 225 \text{ m}$	 Cost for 8 km = Distance if £45 paid =	The nth term of a sequence is $-2n + 5$ Work out the first 4 terms of the sequence What is the value of the 30 th term?

FOCUS 3 TASK 5E

NAME

SKILLS CHECK

Complete $7500 \text{ g} = ? \text{ kg}$	Round 3.065 correct to 1 decimal place	Work out $£1.45 \times 15 =$	Round 52600 correct to 1 significant figure
Work out $£57.15 \div 9$	Work out $1095 + 968$	Work out the size of the angle marked x 	Work out $2005 - 1807$

QUESTION 1 $49 \times 23 = 1127$ Work out $490 \times 230 =$ $49 \times 24 =$	QUESTION 2 Divide £105 in the ratio 4 : 3	QUESTION 3 Work out $15 - 2 \times (3 + 2)$ Fill in the missing operations (and brackets) $4 \quad 4 \quad 5 \quad 5 = 15$																
QUESTION 4 List the integer values of n which satisfy the inequality $-1 < x < 7$	QUESTION 5 Calculate the area 	QUESTION 6 2 bags each contain 3 counters labelled R, G and B. Complete the table to show the ways of picking a counter from each. <table border="1" data-bbox="1085 1702 1468 1971"> <tr> <td></td> <td>R</td> <td>G</td> <td>B</td> </tr> <tr> <td>R</td> <td>RR</td> <td>RG</td> <td></td> </tr> <tr> <td>G</td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td></td> <td></td> <td></td> </tr> </table> What is the probability of picking 2 counters of the same colour?		R	G	B	R	RR	RG		G				B			
	R	G	B															
R	RR	RG																
G																		
B																		