

FOCUS 3 TASKS - Set 4

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

Sheet 4A

Expressing as a percentage	Q1
Equivalence	Q2
Using a calculator	Q3
Conversion graphs	Q4
Types of numbers	Q5
Plotting a frequency polygon	Q6

Sheet 4B

Using Given calculations	Q1
Multiplying and dividing decimals	Q2
Calculating a fraction of a quantity	Q3
Collecting like terms	Q4
Simple substitution	Q5
Inequalities	Q6

Sheet 4C

Percentage of a quantity	Q1
Dividing in a given ratio	Q2
Conversions eg 5 miles = 8 km	Q3
Rearranging formulae	Q4
Area of a triangle/parallelogram	Q5
Area of a trapezium	Q6

Sheet 4D

Working out the best buy	Q1
Working with directed numbers	Q2
Order of operations	Q3
Identifying the gradient of the line	Q4
Reflecting in $y=a$ $x=b$ $y=\pm x$	Q5
Using sample spaces	Q6

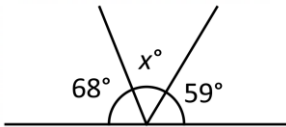
Sheet 4E

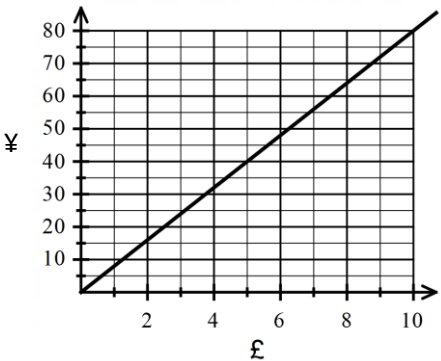
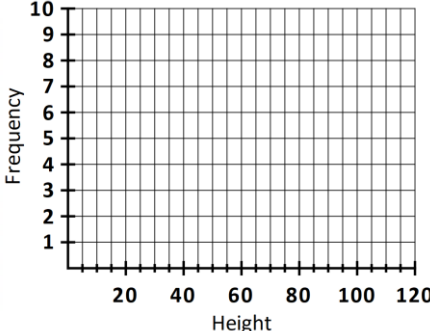
Simplifying ratios	Q1
Hire purchase problems	Q2
Solving simple equations	Q3
Using the nth term of a sequence	Q4
Using a pie chart	Q5
Calculating the mean	Q6

FOCUS 3 TASK 4A

NAME

SKILLS CHECK

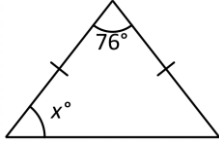
Complete $2.3 \text{ kg} = ? \text{ g}$	Round 0.952 correct to 1 decimal place	Work out $£7.35 \times 15 =$	Round 5462 correct to 1 significant figure
Work out $828 \div 9$	Work out $3554 + 564$	Work out the size of the angle marked x 	Work out $2055 - 1858$

QUESTION 1 Express 375 out of 500 as a percentage	QUESTION 2 Express 0.28 as a fraction (simplest form) The ratio of red to blue counters in a bag is 3 : 5. What fraction of the counters are red?	QUESTION 3 Use a calculator to work out $2.5^2 + 2 \times 3.5^2$ 12.5% of £2800										
QUESTION 4  a) ¥60 = £ b) £55 = ¥	QUESTION 5 List the factors of 36 What is lowest common multiple of 15 and 36?	QUESTION 6 Plot a frequency polygon <table border="1" data-bbox="1054 1585 1501 1697"> <tr> <td>Height</td> <td>$0 < h \leq 30$</td> <td>$30 < h \leq 60$</td> <td>$60 < h \leq 90$</td> <td>$90 < h \leq 120$</td> </tr> <tr> <td>Freq</td> <td>9</td> <td>2</td> <td>6</td> <td>5</td> </tr> </table> 	Height	$0 < h \leq 30$	$30 < h \leq 60$	$60 < h \leq 90$	$90 < h \leq 120$	Freq	9	2	6	5
Height	$0 < h \leq 30$	$30 < h \leq 60$	$60 < h \leq 90$	$90 < h \leq 120$								
Freq	9	2	6	5								

FOCUS 3 TASK 4B

NAME

SKILLS CHECK

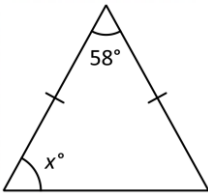
Complete $550 \text{ m} = ? \text{ km}$	Round 10.59 correct to 1 decimal place	Work out $£8.45 \times 25 =$	Round 45309 correct to 1 significant figure
Work out $608 \div 8$	Work out $6.5 + 4.05 + 2.7$	Work out the size of the angle marked x 	Work out $£10.10 - £6.57$

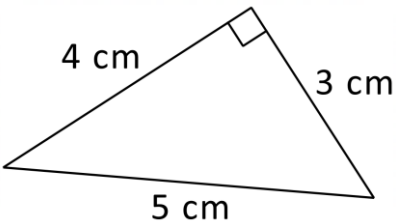
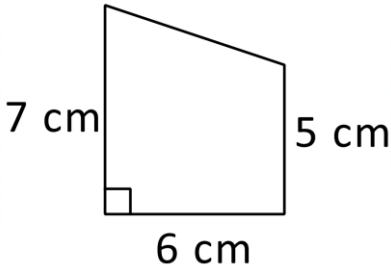
QUESTION 1	QUESTION 2	QUESTION 3
$45 \times 36 = 1620$ Work out $0.45 \times 360 =$ $46 \times 36 =$	Work out $1.2 \times 1.1 =$ $5.5 \div 1.1 =$	Work out $\frac{3}{7}$ of £350 $\frac{4}{5}$ of the chocolates in a box are milk and the rest are dark chocolates. If there are 16 milk chocolates, how many chocolates are there in the box?
QUESTION 4	QUESTION 5	QUESTION 6
Simplify $6x + 2y + x + y$ $5x - 2y - x + 4y$	If $x = 3$ work out the value of x^2 $4x^2$	List the integer values of n which satisfy the inequality $-5 \leq x < 1$

FOCUS 3 TASK 4C

NAME

SKILLS CHECK

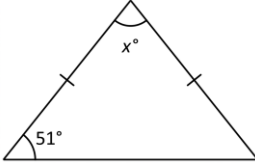
Complete $280 \text{ mm} = ? \text{ cm}$	Round 0.859 correct to 1 decimal place	Work out $£8.44 \times 15 =$	Round 0.0509 correct to 1 significant figure
Work out $664 \div 8$	Work out $12.5 + 0.54 + 0.55$	Work out the size of the angle marked x 	Work out $£21.50 - £17.78$

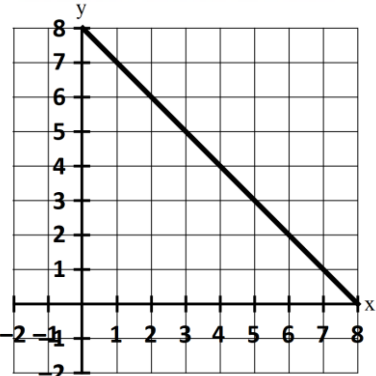
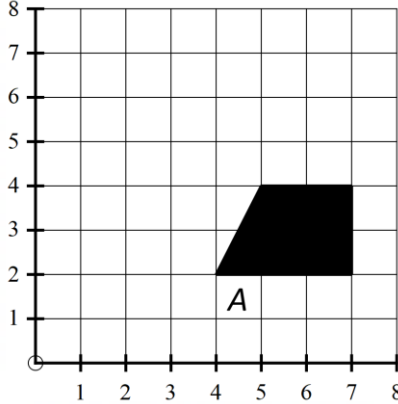
QUESTION 1	QUESTION 2	QUESTION 3
Work out 10% of £56 35% of £94	Divide £200 in the ratio 3 : 5	$12 \text{ inches} = 30 \text{ cm}$ Complete $78 \text{ inches} = ? \text{ cm}$ $315 \text{ cm} = ? \text{ inches}$
QUESTION 4	QUESTION 5	QUESTION 6
Make x the subject of the formula $y = ax - b$	Calculating the area 	Calculate the area of the trapezium 

FOCUS 3 TASK 4D

NAME

SKILLS CHECK

Complete 280 m = ? km	Round 9.998 correct to 1 decimal place	Work out $£5.49 \times 18 =$	Round 0.01095 correct to 1 significant figure
Work out $534 \div 6$	Work out $0.9 + 2.57 + 0.64$	Work out the size of the angle marked x 	Work out $£20.20 - £13.65$

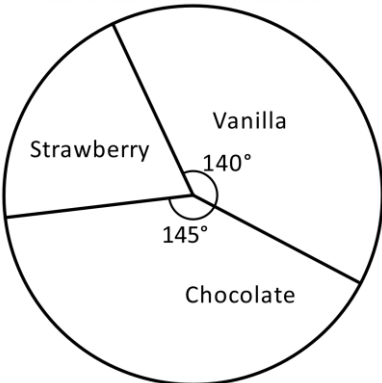
QUESTION 1 Which is the best buy? Pack of 5 cakes for £9.20 Pack of 3 cakes for £5.55	QUESTION 2 Work out a) $6 - -2 =$ b) $-8 \times -10 =$	QUESTION 3 Work out $10 + 2 \times 5 - 5$ Fill in the missing operations $6 \quad 5 \quad 4 \quad 3 = 18$																									
QUESTION 4 What is the gradient of the line? 	QUESTION 5 Reflect shape A in the line $y = x$. Label your shape B 	QUESTION 6 A four sided dice is rolled twice and the scores multiplied Complete the table to show the possible products <table border="1" data-bbox="1070 1693 1474 1973"> <tr> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td>16</td> </tr> </table> What is the probability of the product being greater than 5?		1	2	3	4	1	1				2					3		6			4				16
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2																											
3		6																									
4				16																							

FOCUS 3 TASK 4E

NAME _____

SKILLS CHECK

Complete 45 mm = ? cm	Round 3.95 correct to 1 decimal place	Work out $£2.45 \times 24 =$	Round 9508 correct to 1 significant figure
Work out $644 \div 7$	Work out $10.5 + 0.35 + 2.8$	Work out the size of the angle marked x 	Work out $£22.80 - £18.78$

QUESTION 1 Simplify 3 hours 30 minutes : 45 minutes	QUESTION 2 Dane buys a TV priced £599. He pays a £100 deposit followed by 12 monthly payments of £45. How much extra does he pay?	QUESTION 3 Solve a) $2x - 1 = 3$ b) $\frac{x+1}{5} = 3$																		
QUESTION 4 The nth term of a sequence is $8n - 8$ Work out the first 4 terms of the sequence What is the value of the 20 th term?	QUESTION 5 If 30 people chose Strawberry, how many people chose Vanilla? 	QUESTION 6 Calculate the mean <table border="1" data-bbox="1059 1576 1506 1912"> <thead> <tr> <th>Number of days</th> <th>Frequency</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5</td> <td></td> </tr> <tr> <td>2</td> <td>11</td> <td></td> </tr> <tr> <td>3</td> <td>10</td> <td></td> </tr> <tr> <td>4</td> <td>9</td> <td></td> </tr> <tr> <td>5</td> <td>5</td> <td></td> </tr> </tbody> </table>	Number of days	Frequency		1	5		2	11		3	10		4	9		5	5	
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