FOCUS 5 TASK 3E

NAME _____

Work out 1517 + 358	Work out 1.2 × 8.8	Work out $\frac{7}{10} \times \frac{5}{14}$	A prize is divided in the ratio 3:8. If the largest share is £72, what is the other amount?
Work out 2050 - 1764	Work out 1118÷26	What is 0.5% of £480?	Solve $2(x+9) = 6$

QUESTION 1	QUESTION 2	QUESTION 3
Simplify $\frac{4a^3 \times 6b^3}{6a^2b^3}$ Write 10^{-2} as a fraction	Calculate x Give your answer correct to 1 d.p. 18 cm 9 cm	If the exchange rate is £1 = \$1.80 Work out the missing values a) £400 = \$ b) \$44.10 = £
QUESTION 4	QUESTION 5	QUESTION 6
Express 200 as the product of prime factors	Express in standard form 2200000000000000000000000000000000000	40 students were asked if they studied French or German. 9 students study both languages 19 students study only French 3 students do not study French or German . Complete the diagram French German How many students study only German?

FOCUS 5 TASK 3F

Work out 2035 + 358	Work out 22 × 0.34	Work out $\frac{5}{6} \times \frac{4}{10}$	A prize is divided in the ratio 3:10. If the smallest share is £63, what is the other amount?
Work out 2098 - 1599	Work out 1575÷35	What is 1.5% of £640?	Solve $\frac{1}{2}(2x-5) = 1$

QUESTION 1	QUESTION 2	QUESTION 3
Estimate $\frac{35 \times 48.1}{5.3 \times 3.76}$	A cyclist covers a distance of 12 km in 30 minutes. She rests for 10 minutes before cycling another 18 km in 50 minutes. Calculate her average speed for the whole journey.	Calculate x Give your answer correct to 1 d.p. 10 cm 7.5 cm
QUESTION 4	QUESTION 5	QUESTION 6
Work out (correct to 1 d.p.) a) $5.3^3 \times (10.5 + \sqrt{2.5})$ b) 5000×2.5^4	Calculate x (correct to 1 d.p.) 15 cm 11 cm	Calculate x and y y 112°

FOCUS 6 TASK 3B

NAME _____

Work out $\frac{3}{4} \div 1\frac{1}{3}$	Solve $6 - 3x = 5 - 5x$	Work out 90 ÷ 0.05	Calculate 12.5% of £1580
A prize of is divided in the ratio 4:9. If the difference between the shares is £125 what is the total prize?	Simplify √56	g(x) = 5 - 2x Solve $g(x) = 10$	Evaluate $\left(\frac{4}{9}\right)^{-\frac{3}{2}}$

QUESTION 1	QUESTION 2				QUESTION 3				
Freya is given a 12% pay rise. Her new salary is £36400. What was her salary before the pay rise?	If the perimeter of the rectangle is 52 cm work out the value of x and y $ \begin{array}{c} x + 4y \\ \hline 3x + 2y \end{array} $ 14 cm				work ,		Find the nth term of the sequence 2, 8, 18, 32, 50		
QUESTION 4	Q	UES	TIC	N 5	5				QUESTION 6
The distribution of daily rainfall recorded over 120 days is displayed in the diagram	Estimate the mean mass			S	In a pond, 16 fish are caught, marked and released. A week later 80 fish				
									are caught and 5 are found to be marked. Estimate the number of fish
		f	21	20	18	14	7		in the pond
30 40 50 60 70 80 ml				150	200	250	300		
a) How many days had less than 44 ml of rain?b) How many days had more than 68 ml of rainfall?		Mass (g)	50 ≤ m < 100	100 ≤ m < 15	150 ≤ m < 20	200 ≤ m < 25	250 ≤ m < 30		

FOCUS 6 TASK 3F

NAME _____

Work out $2\frac{1}{7} - 1\frac{4}{5}$	Solve $\frac{2x-1}{3} = x+5$	Work out 0.1 ÷ 0.025	Increase £6400 by 0.25%
A prize of is divided in the ratio 4 : 7. If the difference between the shares is £195 what is the total prize?	Simplify √360	$g(x) = x^2 - \frac{x}{2}$ Solve $g(x) = -4$	Evaluate $\left(\frac{1}{64}\right)^{-\frac{5}{6}}$

QUESTION 1	QUESTION 2	QUESTION 3
Express 200 and 180 as products of prime factors and use this to find the lowest common multiple	Express 0. 104 as a fraction in its lowest form	Simplify √20 × √45
QUESTION 4	QUESTION 5	QUESTION 6
Find the equation of the line passing through the points (2,4) and (6,6)	Expand and simplify $(x-2)(x-2)(x-2)$	Make x the subject of the formula $y = \frac{\sqrt{x+b}}{a}$