PASSPORT TWO ANSWERS

TOPICS	ANSWERS	TOPICS	ANSWERS				
1) Time	a) 6 hours and 20 mins b) 8:15 am	7) Shapes	a) Isosceles Triangle b) Cylinder				
2) Directed Number	 -2 degrees Fall 6 degrees -7 degrees 	8) Area	a) 8cm ² b) 8cm ²				
3) Types of Number	a) 18 b) 3 c) 3 d) 64 d) 27 or 125	9) Angles	 75 degrees 150 ÷ 2 = 75 degrees 				
4) Coordinates	a) i) (3,-3) ii) (-5,-3) b) along to -1 up to 5 c) Triangle (Isosceles)	10) Bar Charts	Maybe = 20 - 15 = 5 10 No Whose going to the prom.				
5) Simplifying	1) 8a+7b 2) 3a 3) 7b-3a+7c	11) Probability	a) $\frac{8}{12} = \frac{2}{3}$ b) $\frac{4}{12} = \frac{1}{3}$				
	a) 13, 15 b) -3, -8 c) 13, 17 and 25	12) Outcomes	T1 T2 T3				
			T C W				
			T W C				
6) Sequences			W C T				
			W T C				
			C T W				

PASSPORT TWO ANSWERS NUMBER

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Index Notation	a) $3^{2+4} = 3^6$ b) $5^{6-2} = 5^4$ c) $(7^2 \times 7^2 \times 7^2)$ $= 7^{3\times 2} = 7^6$	Percentage Decrease	$18.60 \times 0.85 = £15.81$
Percentage Decrease	$2500 \times 0.8 = £2,000$ Or $10\% = 250 \text{ and } 20\% = 500$ So $2500 - 500 = £2000$	Time	6:48am to 7am is 12 mins 7am to 8am is 1 hour 8am to 8:15am is 15 mins In total 1 hour and 27 minutes
Ordering Decimals	0.004, 0.045, 0.405, 0.45, 0.5, 4	Order of Operations	a) $12 + 3 = 15$ b) $4 + 6 \times 2$ = $4 + 12$ = 16
Functional Money	Adults: $3 \times 12.50 = £37.50$ Children: $5 \times 7.40 = £37$ Total Cost: $37.50 + 37 = £74.50$ Change $80 - 74.5 = £5.50$ Yes I have enough and will get £5.50 change.	Multiplying and Dividing Fractions	a) $\frac{16}{20} - \frac{5}{20} = \frac{11}{20}$ b) $\frac{3}{12} = \frac{1}{4}$ c) $\frac{7}{8} \times \frac{5}{4} = \frac{35}{32} = 1\frac{3}{32}$

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PASSPORT TWO ANSWERS Algebra

TOPICS		ANSWE	ERS	TOPICS	ANSWERS		
Mid Point of Coordinates	X coordinates $\frac{4+10}{2} = \frac{14}{2} = 7$ Y coordinates $\frac{6+8}{2} = \frac{14}{2} = 7$ Midpoint - $(7,7)$			Solve 2 step equations	2x + 4 = 18 $2x = 14$ $x = 7$		
Expand Single Brackets	a) $3x + 12$ b) $14x - 35$ c) $x^2 + 8x$			Simplify	 a) 3a b) a + 9b c) 9a - 7b 		
Factorise	a) $4(x+5)$ b) $4(3x+7)$ c) $3y(y+4)$			x -4 -3 y -3 -1 Plot a linear Graph			
Trial and Improvement	Value 5 6 5.5 5.4 5.45	Output 35 48 41.25 39.96 40.6 Answer $x = $	Big/Small Small big Big Small Big	Function Machines	a) Output $3 \times 7 = 21$ b) Input $21 - 4 = 17$ c) Output $7 \times 3 - 5$ $= 21 - 5 = 16$		

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Shapes and Measures

TOPICS	ANSWERS	TOPICS	ANSWERS
Angles in a Triangle	$67 + 67 = 134$ $180 - 134 = 46^{\circ}$ $a = 46^{\circ}$	Angles in a Quadrilater al.	90 + 90 + 54 = 234 $360 - 234 = 126^{\circ}$ $b = 126^{\circ}$
Identify Shapes	Cylinder	Types of Angle	Sketch and label an angle less than 90 degrees. E.g.
Volume of a Cuboid	$10 \times 5 \times 9 = 45 \times 10$ $= 450cm^3$		 Travel northwest along Long Acre Road. Continue Straight on onto Great Queen St. Take the 2nd left off Great Queens St onto Kings Way. Between the 2nd and 3rd turnings on the right will be Holborn Station.
Transformatio n - Rotation	Rotation 180 degrees About the centre (0,0)		

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Statistics

TOPICS	ANSWERS			TOPICS	ANSWERS		
	12 10 38 4 2 Yellow Green Blue Colour			Expected Probability	$\frac{\frac{2}{5}of\ 150}{\frac{150}{5} \times 2 = 30 \times 2 = 60}$ 60 Games		
Bar Chart				Averages	1. Mean = $\frac{3+12+5+8+6+6}{6} = \frac{40}{6} = 6\frac{2}{3} \text{ or } 6.7$ 2. Median = 6 3. Mode = 6 4. Range = $12-3=9$		
	Colour	Frequency	Deg		Letters Delivered	Freq	Fx
	Yellow	6	168		0	9	0
	Green	9	162		1	7	7
	Blue	5 90		Mean from a Table	2	8	16
		20			3	6	18
	$Deg per item = \frac{360}{20} = 18^o$				<u> </u>	30	41
Pie Chart		Favourite Colour			Mean = $\frac{41}{30}$ = 1.37		
The endit	Blue: 5 Yellow: 6 Green: 9			Probability	0.17 + 0.36 + 0.28 = 0.81 1 - 0.81 = 0.19 Probability of yellow = 0.19		

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