Maths Key Skills

Stage 8: Skill Check 2 - Answers

Name: Date:				Class/Group:				
A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability				
1. Work out: 0.4 x 0.2	8:1 0.08	11. Expand & simplify: (2b - 2)(b + 4)	^{8:16} 2b ² +6b-8	21. These are the probabilities of lunch chosen by class 8B				
2. Write 36 as the product of its prime factors. Choose from: A. 2 ² x3 ² B. 2 ² x9 C. 4 x 3 ²	8:2 A . 2 ² x3 ²	12. The ratio of boys: girls in a class is 4:3. Write the proportion of boys in the class as a fraction	8:17 <u>4</u> 7	Lunch Burger Pizza Pasta Baguette Probability 0.15 0.35 0.2 Calculate the missing probability 22. Of the 80 pupils in Y8, 38 are boys. On 8:. Monday 4boys and 2 girls were late. What is the probability that a pupil chosen is a girl and not 8:.				
3. Round off 0.49 correct to 1 significant figure	8:3 0.5	13. 10 calculators cost £55. How much will 4 cost?	8:18 £22					$\frac{8:27}{\frac{40}{80}} = \frac{1}{2}$
4. Evaluate: $\sqrt[5]{32}$	8:4 2	14. A car bought for £800 was sold for 20% more. What price was it sold for?	8:19 £960	late?				
5. Factorise y ² + 5y	^{8:6} y(y + 5)	15. A tap flows at 3 litres in 5 minutes. What is the average rate per hour	8:20 36litres/h	23. A coin is tossed twice. What is the probability of rolling two HEADS?				8:28 HH,HT,TH,TT 1
6. Simplify p ⁵ ÷ p ²	8:7 P ³	16. What is the sum of the interior angles of a pentagon?	^{8:21} 540 ⁰					4
7. Make 'w' the subject of the formula P = 2w + 5 8. Solve $4x - 3 = 2x + 5$	8:8 w = <u>p-5</u> 2 8:10 2x=8	17. What is the area of this circle in terms of π 18. Work out the volume of this prism.	8:21 16π cm² 8:22 42cm³	24. Work out the pocket money Pocket 1 4 7	e modal class money (£) F 3 6 7-9	s interval Frequency 2 9 5	weekly	^{8:29} £(4-6)
	x=4	4cm 3cm 7cm			-12	4		
9. What is the gradient of the graph with the equation y = 2x + 7	8:12 2	19. Enlarge triangle by sf ½ centre X	¥:25	25. Would it be possible to use this graph to extrapolate for the number of errors in 10 chapters? Scattergraph of typo errors in books Scattergraph of typo errors in books x x x x x x x x				8:30 YES Because the points follow a
10 Cive the pth term of the	8:15	20. Write down the 3-figure bearing for	8:25					definite trend
sequence 3 5 7 9 11	2n+1	east direction	090 ⁰	0	2 4 6 Chapters in a b	5 8 book	10	ticita
10. Give the fifth term of the sequence 3 5 7 9 11 Total (A)	2n+1	east direction Total (B)	090 ⁰	0 :	2 4 6 Chapters in a t	5 8 book	10	