Maths Key Skills

Stage 8: Skill Check 12 - Answers

Name: Date:

Class/Group:

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure			C: Statistics & Probability				
1. If 32 x 2.8 = 89.6 What is 896 ÷ 32?	8:1 28	11. Expand & simplify: (2x + 1)(3x – 7)		8:16 6x²-11x-7	21. Carol went to the library to choose a book about cookery or sewing or knitting			8:26 1-0.36	
2. Write 45 as the product of its prime factors.	8:2 3 ² x 5	12. The ratio of red : blue tiles is 5:4. 4/9 of the tiles are blue. Circle TRUE or FALSE		8:17	P(a sewing book) = 0.09 P(knitting) = 0.27 Work out the probability of choosing a cookery book				=0.64
3. Estimate by rounding to 1sf an answer to: 43.9 ÷ 0.18	8:3 40 ÷ 0.2 =400÷2 = 200	13. In a pet shop the ratio of rabbits to guinea pigs is 3 : 2. There were 10 guinea pigs. How many rabbits?		8:18 15	22. Of 84cats & dogs in a sanctuary, 50 are dogs. 18 of the cats are female. What is the probability of choosing a male cat?				8:27 16/84
4. Evaluate: 3 ⁵	243	14. Some running shoes priced for a 5% discount. Complete the mugive the selling price?		8:19 62x0.95					
5. Factorise: 4ab – 10b	8:6 2b(2a-5)	15. Convert 50m/sec to km/h?		8:20 180km/h	23. A spinner has equally like numbers 1,2 & 3 on. The spinner is spun twice. What is the probability of				8:28 3 1
6. Simplify: $4a^3 \div 2a^2$	8:7 2a	16. What is the sum of the interior angles of a heptagon? 8:21						$\frac{3}{9}$ or $\frac{1}{3}$	
7. Make 'p' the subject of the	8:8 p=M-3n	17. Work out the area of a circle with		8:21 169π cm²	24. Give the modal class interval score				8:29 16-20
formula $M = 3n + p$	8:10	diameter 26cm in terms of π .		8:22		Score	Frequency		10-20
8. Solve $x - 5 = 3(x - 4)$	x-5=3x-12 -5=2x-12 2x=7 x=3.5	18. Work out the volume of this prism	prism.			1-5	1		
				6x3+2x2 =22m ²		6-10	6		
		5m 3m 6m 8m		=176m ³		11-15	7		
						16-20	11		
9. Write down the equation	8:12 y=-x+2 or y=2-x	19. Enlarge rectangle by sf 1/2 centr	ntre X	8:23	25 What correlation does this data suggest?			8:30 negative	
of a straight line graph with a					Scatter graph of test results & days absent				
gradient of -1 and cuts the y- axis at +2					100 90 80 70 80 60 80 80 80 80 80 80 80 80 80 8				
10. Give the first 3 terms of	8:15	20. Describe the		8:25					
the sequence with the nth term = 2n + 1	3, 5, 7	bearing of A from B B 85° A		095°	Days missed				
Total (A)		Total (B)				Total (C)			
Test Total (A+B+C)		R (0-9)		Y (10-1	Y (10-19)		G (20-25)		