Mathematics & Numerical Reasoning Test 1

1.	What is the missing number in this series? 57 45 ? 21 9		
	A 102 B 12 C 30 D 33 E none of these		
2.	A house in Melbourne was sold for \$ 280,000. A commission for selling this house was calculated according to the following method: 2% for the first \$ 200,000 and 1% for the remainder. How much commission would the agent get for selling that house?		
	A \$48,000 B \$4,800 C \$5,080 D \$56,000 E \$5,600		
3.	A box contains 20 marbles, 8 coloured red, 6 coloured blue and 6 coloured green. If one mark was taken from the box, what is the probability that it was coloured blue or green? A 3/6 B 4/5 C 2/5 D 3/10	ole	
4.	E none of these Find the number that comes next in the series 25		
5.	If 10 pencils cost as much as one pen but half the price of a book, then two books will cost the same as: A 20 pencils plus 2 pens B 10 pencils plus 4 pens C 10 pencils D 20 pencils E none of these	e	

		Sample Test 1
6.	The su numbe	m of two numbers is 90, and the second divided by the first equals 5. What are the two rs?
	В С D	5 & 85 6 & 15 15 & 75 30 & 60 45 & 45
7.	If these	e numbers are written in order, smallest to largest, what will be the middle number? 36 8620 845 2351 8535
	В С D	3736 8620 845 2351 none of these
8.	If 9 Ma	arch, 2001 is a Friday, what will the following Thursday be?
	B C D	22 March, 2001 16 March, 2001 15 March, 2001 13 March, 2001 none of these
9.		of the following numbers cannot be divided by 9? 21, 27, 31, 36, 47, 54, 72, 83, 99, 105
	B C D	9, 21, 31, 36 17, 21, 27, 54, 72 21, 34, 39, 73, 109 9, 21, 36, 83, 99 21, 27, 36, 72, 99, 105
10.	A nine fill it?	litre bucket has four litres of paint in it. How much more paint needs to be added to half
	A B C D E	5 litres 1 litres ½ litres 7 litres you can not tell
11.	To mea	asure the volume of a container, we use
		mm

B km

C L D kg E m²

12. A unit	2. A unit of area is		
A B C D E	tonnes yards mass square metre none of these		
13. When face?	a dice of six even sides is tossed, what is the chance of any one side being on the upper		
A B C D E			
	of the following numbers is not a multiple of 9? , 81, 63, 73, 99, 108, 126, 162		
A B C D E	63 73 108 162 none of these		
15. How r	nany lines of symmetry does an equilateral triangle have?		
A B C D E	0 1 2 3 4		
16. Which	one of these has the longest distance?		
B C	0.66 km 606 m 6,066 cm 100, 000 mm 6000 dm		
move	the minute hand of a clock moves through 15 minutes of time, how many degrees does it through? 15° 30° 45° 60° 90°		

- 18. If x = -2, y = 3 then 8x + 3y 3x + 7y = ?
 - **A** 5x + 10y
 - **B** 11x + 10y
 - **C** 30
 - **D** 40
 - **E** 300
- 19. Tom has a bag of marbles. She gave half of them to Tim and then a third of the marbles still in the bag to Tam. He then had 6 marbles left. How many marbles in the bag to start with?
 - **A** 36
 - **B** 30
 - C 24
 - **D** 18
 - E none of these
- 20. A report says that about 18,200 students had been sat in the entrance examination. The number was rounded to the nearest ten. Which of these could have been the actual number of students sat for the exam?
 - **A** 18,043
 - **B** 18,149
 - **C** 18,189
 - **D** 18,289
 - **E** 18,328
- 21. A metal bar, a wooden bar, and a plastic bar are placed in hot water. After 30 seconds, which bar will feel hottest?
 - A the plastic bar
 - **B** the metal bar
 - C the wooden bar
 - **D** all the tree bars feel the same
 - E none of these is correct
- 22. A pie chart is drawn to represent 4 items. The angles of three of the sectors are 90°, 100° and 125°. The fourth sector as a percentage of the whole pie chart is
 - **A** 12.5
 - **B** 25
 - C 45
 - **D** 75
 - E none of these