Numeracy Practice Test Year 9 - Answers



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2010 Practice Test 2 – Calculator allowed

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	Calculate the answer:			Shade one hubble
	4.13 x 0.07 =			
	• 0.2891	0.3304	○ 2.891	
	○ 28.91	33.04		
2	Calculate the answer: $\frac{6}{3}$	$\frac{x 5.14}{x 10.1} = (correct$	to two decimal places)
	1.02			Write the answer in the box.
3	The digits 4, 5 and 6 are 2a + b - c = 8 If <i>b</i> is 4, the value of <i>c</i> is	substituted into the	following equation:	
	6			Shade one bubble.
4	$(5.2 - 3.6)^3 - \frac{32}{2.1 \times 14}$	is closest to:		Shade one bubble.
	<u> </u>	○ - 255	<u> </u>	
	○ - 119	• 3		
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5	The square root of 2600 is betw	een:	Shade one bubble.
(─ 0 and 10	10 and 20	20 and 100
(\bigcirc 100 and 1000	1000 and 1000 000	
6	A test consists of 60 questions. tested.	It is structured so that each part of	the English course is
	Comprehension: 24 Vocabulary: 9 Spelling: 12 Writing: 7 Grammar: 8		
	What is the ratio of Comprehens	sion questions to Grammar question	ns?
	• 3:1	4:1	Shade one bubble.
	0 1.4	5.7	
7	A block of chocolate contains 38 arranged in equally sized rows.	5 small identical squares of chocola	te
	If there are 7 columns, the num	ber of rows in the block of chocolate	e is:
	<u>○</u> 2 ○	3	Shade one bubble.
	• 5 •	6	

a x^{x} **b** y^{y} = 675 Shade one bubble. a, x, b and y are all whole numbers. If a = 5 and b = 3 then the values for x and y are: $\bigcirc x = 3$ $\bigcirc x = 3$ x = 2y = 3y = 2v = 5 $\bigcirc x = 2$ $\bigcirc x = 5$ *y* = 5 *y* = 2 K equals 3.25×10^2 Shade one bubble. L equals 2.53 x 10³ M equals 5.204 x 10² N equals 3.52×10^3 List K, L, M and N in ascending order ○ K, M, N, L ○ N, M, L, K ○ N, L, M, K 10 If x = -4 then $x^2 - 3x + 12$ is equal to: Shade one bubble. ○ 12 ○ -16 08 \bigcirc 16 • 40

0	The difference betwee	n $\sqrt{8}$ and $\sqrt{2}$ is sq	uared. The result is:					
	1.965.96	1.98816	• 2	Shade one bubble.				
12	 Peter's plane leaves Melbourne airport at 10:00 am on Tuesday morning on its way to Los Angeles (USA). The flight takes a total of 13.5 hours. Los Angeles time is 17 hours behind Melbourne time. What day and time will Peter's flight arrive in Los Angeles? 							
	Tuesday 6:	30 am		Write one number in the box.				
13	How many edges are	there on a cube?		Shade one bubble.				
	<u> </u>	<u></u> 6	8 🔾					
	• 12	─ 16						
14	An isosceles triangle has two angles equal to 25°. What is the size of the third angle?							
	○ 25°	○ 50°	◯ 155°					
	• 130°	○ 180°						







24	The area of a squa	are is 80 cm ² . How long	g is each side?				
	○ 4 cm○ 20 cm	 8.94 cm 40 cm 	─ 9.48 cm	Shade one bubble.			
25	Students in Mr. Fin had on average \$1	ch's class had a total 4.40. How many stude	of \$360.00 to spend at ents are in Mr. Finch's c	the school fete. Each student class?			
	1523	1725	<u> </u>	Shade one bubble.			
26	There are 26 students in Mrs Block's mathematics class: 14 girls and 12 boys. 6 students were late to class. If 5 of the students late to class were boys, what is the ratio of Girls to Boys that were on time?						
	14:1213:7	5:126:5	O 9:11	Shade one bubble.			
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27	A triangle that is 25 c	m high has an area of	f 50 cm . The base of the	e triangle measures:
	○ 1 cm	─ 2 cm	• 4 cm	
	\bigcirc 8 cm	─ 12 cm		Shade one bubble.
		C		
28	A bag contains 3 red are drawn from the b	marbles, 5 white marl ag and not replaced.	oles and 2 blue marbles.	Two white marbles
	What is the probabili	ty the next marble draw	wn will be white?	
	\bigcirc 5	\bigcirc 3	\bigcirc 0.5	
			0.0	Shade one bubble.
	• 0.375	\bigcirc 0		
29	A solid piece of choo has been cut from th The change in surfac	colate (A) measures 20 e original block. ce area for block A is:	0 cm x 10 cm x 15 cm. A	2 cm cube (B)
		A	B	Shade one bubble.
	\bigcirc 8cm ² more sur	ace area	◯ 24cm ² more su	rface area
	\bigcirc 24cm 2 less sur	face area	No change in sur	face area
	\bigcirc 8cm ² less surfa	ice area		

Tony runs a small catering business that delivers snacks and lunches to local factories.

He asked his customers if they preferred sandwiches or wraps for lunch.

The results are shown in this table.

30

	Filling	Sandwiches	Wraps
Special 1	Ham and Green Salad	80	45
Special 2	Chicken and Garden Salad	68	32
Special 3	Tuna, Cheese and Tomato	35	50

What is the probability that for Special 3 (Tuna, Cheese and Tomato) a wrap will be chosen?



END OF TEST

Numeracy Practice Test Year 9 - Answers



2010 Practice Test 2 – Non-Calculator

Student Details					
First Name					
Last Name					
Today's Date is:					
Test Instructions					
You have 40 minutes to complete this test.					
You are NOT allowed to use a calculator.					
You should use a pencil to write your answers or shade in the bubble.					
If you make a mistake, rub it out thoroughly.					
The following test has been designed by 3P Learning to prepare students for the National Assessment Program Numeracy Test. This test is to be used for revision purposes only. 3P Learning does not guarantee that the format of this test is the same as an actual test.					

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Non-calculator

0	Which of the following nu as its factors?	umbers does not h	ave 2, 3 and 5	Shade one bubble.
	◯ 30	• 85	○ 60	
	<u> </u>	─ 120		
2	Which of the following nu	umbers is prime?		Shade one bubble.
	• 2	○ 4	○ 9	
	<u> </u>	<u> </u>		
3	What is the middle numb in ascending order?	er when these nu	mbers are arranged	Shade one bubble.
	● -5.306	<u></u> −5.4	<u> </u>	
	<u></u> −5.04	<u></u> −5.3		
4	The temperature in the fit the difference between the terms of the difference between the d	reezer is kept at -1 nese temperatures	6°C. If the room tempe	erature is 14.3ºC, what is
	30.3 °C			Write the answer in the box.
5	16 ÷ 0.2 =			Shade one bubble.
	○ 3.2	8 〇	○ 32	
	• 80	○ 800		

6	A laboratory experiment was completed at 10:05am after taking When was the experiment started?	2 hours and 43 minutes.
	7:22 am	Write the answer in the box.
7	(5 x 100) + (6 x $\frac{1}{10}$) + (3 x 1) + (8 x $\frac{1}{100}$) + (7 x 10) is equa	I to:
	 573.68 5736.8 563.87 	Shade one bubble.
8	Which of the following fractions is closest to $\frac{1}{2}$? (None of them are EQUAL to $\frac{1}{2}$)	
	$\bigcirc \frac{236}{568} \bigcirc \frac{491}{812} \bullet \frac{368}{732}$	Shade one bubble.
	$\bigcirc \frac{268}{134} \qquad \bigcirc \frac{458}{792}$	
9	Which one of the following would produce the largest answer:	
	 10 ÷ 0.1 10 × 0.1 10 + 0.1 10 - 0.1 	Shade one bubble.

10	I counted the jelly beans in a small packet and found 6 white, 7 red, 4 yellow and 3 black jelly beans.						
	What is the ratio of the	black ones to the yel	low jelly beans?				
	◯ 1:4	• 3:4	◯ 3:7	Shade one bubble.			
	○ 3 : 17	○ 3 : 20					
1	I counted the jelly bean black jelly beans. What is the percentage	s in a small packet a of the jelly beans tha	nd found 6 white, 7 re at are not black?	ed, 4 yellow and 3			
		$\sim 20\%$					
	○ 15%○ 35%	20%85%	○ 30%	Shade one bubble.			
		0074					
12	$(\sqrt{188 + 37})^2$ is e	qual to:					
	─ 12 X 12	🔿 13 X 13	◯ 14 X 14				
	● 15 X 15	○ 16 X 16					
13	The value of $\sqrt{5000}$	- 200 is closest	t to:				
	○ 50	○ 60	• 70				
	<u> </u>	<u> </u>		Shade one bubble.			

14	If a computer file repair rate (round to the neare	process is successfu st %):	l 5 out of 7 times, fin	d its percentage success
	71%			Write the answer in the box.
15	Toby loves making mode model of a tower that me model of the same build How tall will the new mo	els of buildings, espe easures 25 cm. His t ing so that the new c del be?	cially skyscrapers. I friend Harry has dare one is in the ratio of 3	He is very proud of his ed him to make a larger 3:2.
	─ 30 cm● 37.5 cm	 32.5 cm 40 cm 	─ 35 cm	Shade one bubble.
16	In the isosceles triangle ∠E is 44º ∠ BAC measu	ECD, the line AB is p res	parallel to CD. If	
	C C D			
	 44° 112°	○ 68°○ 122°	○ 88°	Shade one bubble.





Non-calculator

$\frac{22}{3} \frac{2x+5}{3} = 30 \text{ , the}$	e value of x in this equa	ation is:	
542.5	7.550	<u> </u>	Shade one bubble.
23 The solution to the $x = 4$	equation: 3 <i>x</i> + 5 = 7 <i>x</i> -	• 11 is:	Write the answer in the box.
24 Each brick is equal of the pile have exa	to the sum of the brick actly the same value. D	s it is sitting on. The t etermine the value of	two grey bricks on the bottom
10	64		
Grey brick =	18		Write the answer in the box.

Non-calculator



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28	A farmer feeds hay and grain to his cattle during the winter months. He buys 3 tonnes of grain each week and allows 20 kg for each cow per day.					
	What is the maximum number of cows he can feed?					
	Shade one bubble.					
	◯ 3 cows	─ 7 cows	○ 9 cow	S		
	 21 cows 	23 cows				
29	ABC is a right-angled with side AB = 12 cm and the					
	What does BC measure	?				
	─ 8 cm	○ 10 cm	─ 12 cm	Shade one bubble.		
	─ 14 cm	● 16 cm				
30	Papex Pty Ltd produce paper tissues in boxes shaped as rectangular prisms.					
	These boxes have dimensions of 16 cm by 5 cm by 4 cm.					
	They plan to pack these boxes in a 10-box plastic-covered module to sell to shops.					
	What is the volume of this module?					
				Shade one bubble.		
	◯ 144 cm ³	○ 250 cm ³	\bigcirc 320 cm ³			
	◯ 1440 cm ³	• 3200 cm ³				
		END O	F TEST			
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