Sydney Distance Education High School

Forbes Street WOOLLOOMOOLOO NSW 2011 Locked Bag 5000 POTTS POINT NSW 1335





Student's Name:

(First name)

(Last name)

Part 2. Numeracy

Includes: Number Measurement Data representation Space and Geometry Patterns and Algebra

This work needs to be completed and returned with your enrolment application

Instructions:

- Calculators must not be used.
- Show all your working. •
- Spend approximately **1 hour** to attempt this work. •
- Try and answer all questions. •
- You need to do this work by yourself, without help from your supervisor. •
- No resources or Internet are to be used. •
- Read the instructions for each part before attempting the questions.
- Follow all instructions.
- A ruler and protractor are needed.

SUPERVISORS: Please complete the Supervisor's Section on the back page.

Number

Q1.	Q4.		
Find the sum of 21 and 68	Find 30% of \$80		
	Answer:		
Q2.	Q5.		
74 <u>- 58</u>	$\frac{2}{3} = \frac{\Box}{6}$		
	Answer: □=		
Q3.	Q6.		
4 + 5 x 7 =	If you share \$25 in a ratio of 2:3 the answer will be:		
	a) \$15 : \$10		
	b) \$5 : \$20		
	c) \$20: \$5		
	a) \$10:\$15		
	Circle the correct answer.		



Measurement

Q13.	Q16.			
Use a ruler to measure the length of this line.	The volume of this rectangular prism is:			
	a) 9 cubes			
	b) 12 cubes			
	c) 27 cubes			
	d) 36 cubes			
Answer:	Circle the correct answer.			
Q14.	Q17.			
	The following timetable is for a bus.			
4cm	John Street 8:25 am			
	Main Road 8:47 am			
	Railway 8:51 am			
	School 9:02 am			
If one side of this square is 4cm, what is the perimeter of the square?	How long does it take to travel from Main Road to School?			
Answer:	Answer:			
Q15.	Q18.			
How tall could a man be?	Write the time 2:35 pm in 24 hour time.			
 a) 164 mm b) 164 cm c) 16.4 m d) 0.164 km 				
Circle the correct answer.	Answer			

Space and Geometry

Q19.	top	Q22.		
	front			
Draw the vie	ew that you would see from	This shape is a:		
the front of t	his triangular prism.	a)	Square Pyramid	
		b)	Rectangular prism	
		c)	Hexagon	
		d)	Triangular prism	
		Circle	the correct answer.	
Q20. The distance a) Sect b) Rad c) Circ d) Cho Circle the co	e around a circle is called: for ius pumference rd	Q23. This tr length. a) b) c) d) Circle	iangle has two sides of equal Its correct name is: Scalene triangle Obtuse triangle Isosceles triangle Reflex triangle	
Q21.		Q24.	4cm	
Use a protration angle x	ctor to measure the size of			
	x°	On this scale drawing, one side of the rectangle is 4cm. If the scale is 1cm:7m then how long is that side in real life?		
Answer:		Answe	er:	

Patterns and Algebra

Q25.	Q28.			
Determine the next three numbers in this sequence:	On this graph, plot the points A $(1,3)$ and B $(4,5)$, then join A to B.			
3,7,11,,,	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
Q26.	Q29.			
Describe, in words, how this pattern is formed.	Simplify 5a – 3a :			
2, 6, 18, 54,	a) 8a			
	b) 5a			
	c) 2a			
Answer:	d) 2			
	Circle the correct answer.			
Q27.	Q30.			
\triangle , \triangle , \triangle	a = 4 and $b = 10$			
	Using these values substitute and evaluate the value of Δ			
Continue this pattern by drawing the next shape.	$2a + 3b = \Delta$			
	Answer: $\Delta =$			

Supervisor's Section						
Please complete. Tick where most appropriate.						
1. Work was completed in	 0	l⊥l/2 hour	1 hour	1½ hours		
2. Student found the work	↓ Very eas	y Moderately easy	Moderately hard	Very hard		
3. Student participation	 Unwillin	g enc	Needed couragement	Enthusiastic		
4. Student completed work		independently	student assistance	needed ce		
If the student needed assistance please indicate the level of assistance given						
Any further comment						