

Saint Ignatius' College

Year 12 Half-Yearly General Mathematics Examination 2008

Term 1

GENERAL INSTRUCTIONS

- \Rightarrow Reading Time 5 minutes
- \Rightarrow Working Time 2¹/₂ hours
- \Rightarrow Write using black or blue pen
- \Rightarrow Board approved calculators may be used
- \Rightarrow Write your name and teachers name on each answer booklet
- \Rightarrow A formulae sheet is provided at the back of this paper

Section I - IV

Total Marks - 100

- \Rightarrow Attempt all questions
- \Rightarrow 25 marks for each section

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SECTION I Equations and Functions (25 marks)

Questions 1 - 5 are multiple choice. Select the best response and circle the answer in the corresponding answer booklet.

1.	Simplify $5(4x - 3) - 6(2x + 5)$					
	(a) 8x – 45	(b) 8x + 15	(c) 32x – 45	(d) 32x + 15		
2.	Simplify $8m^2c$:	$-4m^2c^2$				
	(a) 2 <i>c</i>	(b) $\frac{2}{c}$	(c) $\frac{c}{2}$	(d) $2m^0$		
3.	Which of the fo	llowing is equal to 2	10 000 000 000?			
	(a) 2.1×10^{10}	(b) 2.1 × 10 ¹¹	(c) 2.1×10^{12}	(d) 2.1 × 10 ¹³		
4.	4. If $A = 6s^2$, a possible value of s when $A = 864$ is:					
	(a) 6	(b) 12	(c) 24	(d) 144		

5. Consider the following equation and solution.

7x - 3(2x + 5) = 18 Line 1 7x - 6x + 15 = 18 Line 2 x + 15 = 18 Line 3 x = 3 Line 4

There is an error in this solution. The error first occurs between:

(a) Line 1 and Line 2	(b) Line 2 and Line 3
(c) Line 3 and Line 4	(d) Line 2 and Line 4

Questions 6 onward require full working in your answer booklet

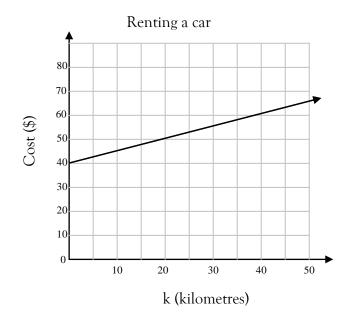
6. Use the formula $T = a r^{n-1}$ to find the value of *T*, when a = 2, r = 3 and n = 4.

7. Solve the equation:
$$\frac{3p-3}{4} = \frac{3+5p}{6}$$
.

8. Calculate $\frac{4.85 \times 10^4}{1.24 \times 10^{-8}}$.

(Express your answer in scientific notation correct to three significant figures)

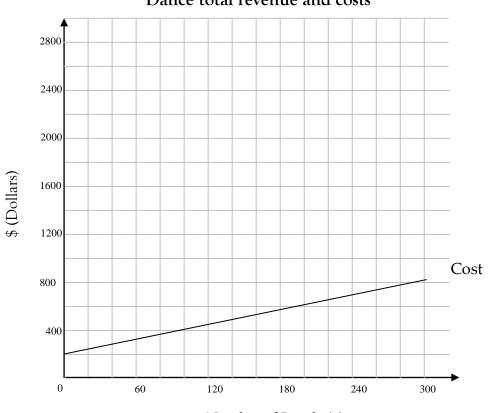
9. The cost of renting a car is \$40 plus 50c per kilometre (k) driven.



- a. Write an algebraic expression for the cost C in terms of k **1**
- b. What is the cost (in dollars) if the car was driven 50 km. 1
- c. If the total cost of the rental car is \$150. Write an equation and solve for k to find the distance travelled in the rental car.

2

10. Below is a revenue and cost analysis graph created by organisers of a school dance.



Dance total revenue and costs

Number of People (n)

The venue charges \$200 to hire the room, and the DJ charges \$2 per person. The organisers are intending to charge \$10 per person to attend the dance.

a. Explain why $C = 200 + 2n$ represents the cost (<i>C</i> dollars) involved in <i>n</i> people attending the dance.	1
b. Write an expression to represent the revenue (R dollars) the organisers will receive for selling n tickets. (Note: revenue = income)	1
c. In your answer booklet, sketch on the graph provided the revenue, to determine the number of people the organisers need to attend to break even.	2
d. What profit will the organizers make if 300 people attend?	1
e. How many people will he need to attend to make a profit of \$1600?	2

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Dance total nevenue and costs

11. The directions on a bottle of medicine state the adult dose of the medicine is 60 mL. A child's dosage is found using the formula, $D = 75 - \frac{225}{A}$, where D is the child's dosage and A is the age of the child in years.

(a) Calculate the dosage of the medicine that should be given to a 5 **1** year old.

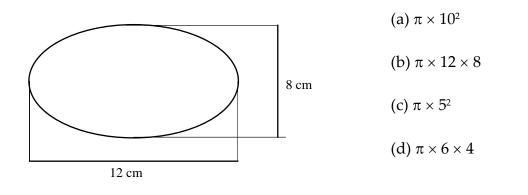
(b) Use the formula to demonstrate that the medicine should not be **1** given to a child that is 3 years old or under.

(c) Use the formula to determine at what age a person can begin to take **2** the adult dose of the medicine.

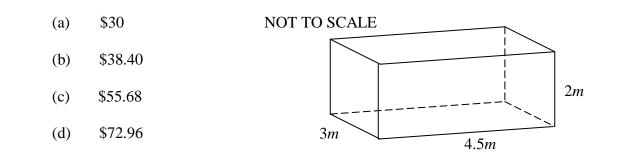
SECTION II Area and Volume (25 marks)

Questions 1 – 5 are multiple choice. Select the best response and circle the answer in the corresponding answer booklet.

1. Which of the following expressions will correctly give the area of the ellipse drawn below?



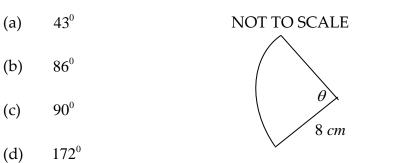
2. Find the cost of painting the **four walls** of a rectangular room represented below, given that one square metre of paint costs \$1.28.



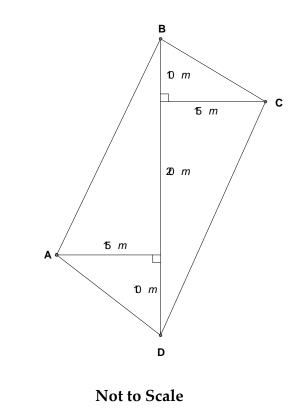
3. The mass of a car is given as 894 kg, correct to the nearest kilogram. The maximum percentage error is closest to:

(a)	0.055%	(b) 0.056%	(c) 0.55%	(d) 5%
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4. The sector shown has an arc length of 12cm and radius 8 cm. The angle θ is closest to

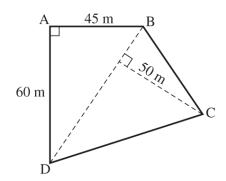


- 5. The perimeter of ABCD is closest to?
 - (a) 51.5 *m*
 - (b) 103 *m*
 - (c) 206 *m*
 - (d) 1200 m



Questions 6 onward require full working in your answer booklet

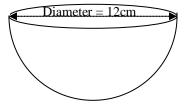
6. The figure below shows a paddock on farmer Brown's property.



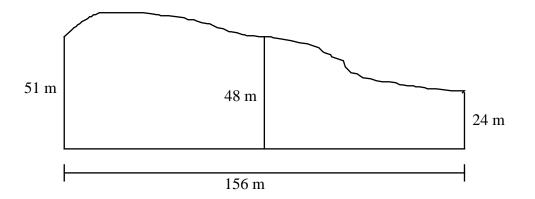
least amount of money possible on fertiliser for a single spraying of this paddock?

7. The figure drawn below shows a **solid** plastic mould in the shape of a hemisphere.

Find the **total** surface area of the hemisphere. (correct to the nearest square centimetre)

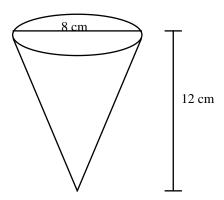


8. The figure below shows an irregular area of land.



Use Simpson's rule to approximate the area of the block of land.

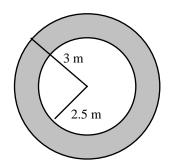
9. The figure below is of an ice-cream cone.



Find the volume of the ice-cream cone correct to 1 decimal place.

2

10. The cross-section of cement piping with an outer radius of 3 metres and an inner radius of 2.5 metres is shown in the diagram below.



(a) Calculate the cross-sectional (shaded) area correct to 1 decimal place?
(b) The piping comes in 5 metre lengths. Calculate the volume of cement required to make one length of the pipe.
(c) The cement weighs 225 kg/m³. Calculate the weight of each section of piping. Give your answer in *tonnes*.
1
11. The formula for the surface area of a closed cylinder is SA = 2πrh + 2πr².

Find the surface area of a closed cylinder with a radius of 4.9 cm and a height of 5.2 cm, correct to 2 decimal places.

12. Find the radius of an open cylinder (not closed at either end) with a curved surface area of 754 cm² and a height of 10 cm, correct to 1 decimal place.

2

SECTION III Credits and Loans (25 marks)

Questions 1 - 5 are multiple choice. Select the best response and circle the answer in the corresponding answer booklet.

1. Mark borrowed \$25 000 over 6 years for a business. His repayments were set at \$650 per month.

How much interest was charged over the life of the loan?

()	\$650 ((b) \$3900	(c) \$21 800	(d)	\$46 800
(d	a) \$650 (0) \$3900	(C) \$21 000	(u) \$40 000

2. Steve and Amanda take out a home loan for \$400 000. They make repayments of \$2957 per month at an interest rate of 9% per annum , charged monthly, with no hidden fees.

How much do they owe after one month?

(a) \$3 000	(b) \$403 000
(c) \$397 043	(d) \$ 400 043

- 3. Three boys each borrowed \$15 000 to buy a car. They then proceeded to make the following repayments:
 - Brad \$500 a fortnight
 - Mark \$1000 a month
 - Tony \$12 000 a year

Which of the boys pays the most each year?

(a) Brad	(b) Mark
(c) Tony	(d) They all contribute the same per year

Years	7%	7.25%	7.5%	7.75%	8%	8.25%
5	19.8012	19.9194	20.0379	20.1570	20.2765	20.3963
10	11.6108	11.7401	11.8702	12.0011	12.1328	12.2653
15	8.9883	9.1286	9.2701	9.4128	9.5566	9.7014
20	7.7530	7.9036	8.0059	8.2095	8.3644	8.5207
25	7.0678	7.2281	7.3899	7.5533	7.7182	7.8875

4 The table shows the payments per \$1000 on a monthly reducible loan.

What is the monthly repayments on a loan of \$85 000 over 20 years at 7.75% per annum is closest to?

(a) \$8.21	(b) \$680.50	(c) \$697.80	(d) \$167 484
(a) \$0. -1	(2) \$000.00	(0) \$077.00	$(\alpha) \varphi = 0$

5. A new Holden Commodore was advertised at \$36 000. Tony bought the car with the conditions of making monthly repayments of \$585 for 10 years.

What is the flat interest rate that Tony has agreed to pay?

(a)	1.625%	(b) 9.5%	(c) 16.25%	(d) 19.5%
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Questions 6 onward require full working in your answer booklet

6. Find the simple interest payable on a loan of \$12 000 at a simple interest2 rate of 6% p.a. over a three year term.

7. Lee agrees to take a personal loan of \$5 000 and is charged 0.5% per month interest that is compounded monthly.

(a) Lee decides to pay off the loan in equal monthly instalments of \$2002 Find the amount owing, after interest has been charged and the first month's payment made.

1

2

2

(b) Find the total interest charged in the first two months of this loan.

8. The table below gives the monthly payments in dollars for loans of \$10 000.

Term (Years)	9.5%	10.0%	10.5%
15	104.40	107.50	110.40
20	93.20	96.50	99.70
25	87.40	90.80	94.10

(a) Determine the total paid for a loan of \$140 000 at 9.5% over 25 years.

(b) How much would you save in paying off a loan of \$140 000 at 9.5% in 20 years instead of 25 years?

9. A credit card charges interest of 0.075% per day on the outstanding balance. Anthony's credit card has an outstanding balance of \$975. Calculate the balance on the credit card after a further two weeks.

10. In June, Ms Holstein received a statement for her credit card account. The account has no interest free period. Simple interest is calculated and charged to her account on the statement date.

Credit limit: \$2000 Statement Date: 20 June 2007		Sum Bank Credit card Statement		
Previous Balance Payments		Purchases Interest charge		
\$263.83	\$263.83	\$617.72		
Date	Purchases	Amount		
23 May	Concert Tickets	\$617.72		
Annual percentage r Daily percentage rate				

(a) For how many days is she charged interest on her purchase?	1
(b) Calculate the interest charged to her account.	2

11. Fran borrowed \$5000 for an home theatre system at 7.2% per annum, monthly reducible and arranged to make monthly payments of \$650. The first 2 months of her repayments are shown in the table below

Ν	Principal (P)	Interest (I)	P + I	(P +I) - R
1	\$5 000	\$30	\$5 030	\$ 4 380
2	\$4 380	\$26.28	\$4 406.28	\$3 756.28
3	\$3 756.28	А	В	С

(a) Calculate the values that would be filled in for A, B, and C.

(b) On the graph provided on your answer sheet show, the amount owing (after interest has been charged and repayments made) on Fran's loan for the first 3 months.

3

(c) Estimate, using your graph after how many months, she will owe less than \$2000.

SECTION IV Statistical distributions (25 marks)

Questions 1 - 5 are multiple choice. Select the best response and circle the answer in the corresponding answer booklet.

1. For the set of scores 2, 4, 5, 5, 6, 9, 9, 9 the median and mode are:

(A) Median = 5, Mode = 5	(B) Median = 5.5, Mode = 5
(C) Median = 5, Mode = 9	(D) Median = 5.5, Mode = 9

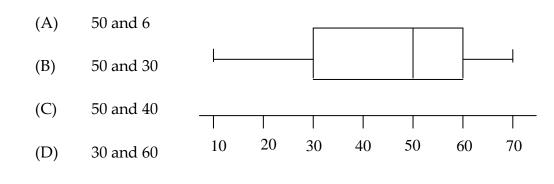
2. A weather station measures the minimum overnight temperature each night. Which of the following best describes the type of data collected?

(A) Discrete	(B) Stratified	(C) Categorical	(D) Continuous
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3. Wilma is collecting data for a study on what type of take-away food outlet should be set up in her local area. To choose the participants in her survey Wilma selects equal numbers of males and females and ensures that the number of people in each age bracket is in the same proportion to the overall population. This is an example of:

(A) a stratified sample	(B) a systematic sample
(C) a random sample	(D) a discrete sample

4. The median and interquartile range of the box and whisker plot are?



5. Sandra's Mathematics class had a test and the results were as follows:

 86
 90
 74
 74
 90
 18
 62
 86
 18
 62

Which of the following statements best describes this set of data?

- (A) The data is positively skewed
- (B) The data is negatively skewed
- (C) The data is symmetrical
- (D) The data has a range of 24

Questions 6 onward require full working in your answer booklet

6. The following data represents the results of a class in a General Mathematics assessment task.

97 42 85 78 64 58 87 49 89 72

Calculate the mean and population standard deviation for the assessment task.

2

7. The weight of 12 boys and 12 girls are represented in the following back-toback stem-and-leaf plot.

BOYS		GIRLS
	4	7
9, 3	5	1, 1, 1, 4, 5, 9 1, 5, 5 2, 4
9, 7, 7, 3, 1	6	1, 5, 5
7, 4, 2, 1	7	2, 4
4	8	

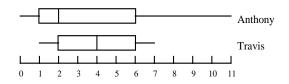
KEY: $4 \mid 7 = 47 \text{ kg}$

(a) The mean weight of Girls was 58.75. What is the mean weight of the boys? 1

(b) For each set of data determine the interquartile range.	2
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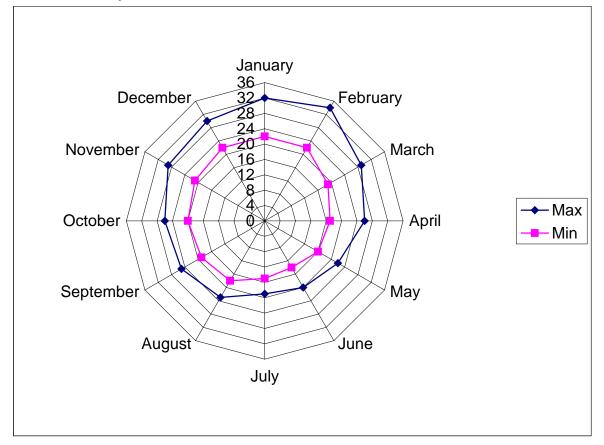
(c) Give a statistical reason why the group of boys are heavier.

8. The data below shows the number of goals kicked by Anthony and Travis for their AFL team.



Describe the shape of the distribution for each player. (i.e. in terms of skewness, symmetry etc) 2

9. The graph below shows the average maximum and minimum temperature $(^{\circ}C)$ at a holiday island resort.



(a) What is the average maximum daily temperature for March?	1
(b) Which month has the lowest minimum daily temperature?	1
(c) Which month has the greatest difference between the average daily maximum and minimum temperature?	1
(d) Describe the annual weather pattern at this holiday resort. Year 12 – General Mathematics Half Yearly 2008 Page 17 of 20	2

10. An experiment is conducted to compare the benefits of having professional driving lessons have on young drivers attempting to get their licence. The results of their first driving test are shown in the two-way table drawn below.

	Passed	Failed	TOTAL
Professional lessons	96	34	
Taught privately	87	43	
TOTAL			

(a) How many peop	ole were st	udied in	n the ex	perimer	nt?	1
(b) How many driv	ers failed a	at their :	first atte	empt to	get their licence?	1
11 . Outside the tuck period. The number	-				stalled for a 4-week trial s shown below.	
	22	27	19	15	1	
	20	19	30	34	21	
	16	14	12	18	11	
	25	16	22	24	31	
(a) Find the standar Explain your choice					rd deviation.	2
(b) Complete the frequency distribution table in your answer booklet.					1	
(c) On the grid provided in your answer booklet, draw a cumulative frequency histogram and polygon for the data.					1	

(d) Use your graph to estimate the median of the distribution. 1

GENERAL MATHEMATICS

FORMULAE SHEET

Area of an annulus

 $A = \pi (R^{2} - r^{2})$ R = radius of outer circle r = radius of inner circle

Area of an ellipse

 $A = \pi a b$

a =length of semi-major axis b =length of semi-minor axis

Area of a sector

 $A = \frac{\theta}{360} \pi r^{2}$ θ = number of degrees in central angle

Arc length of a circle

$$l = \frac{\theta}{360} 2\pi r$$

 θ = number of degrees in central angle

Simpson's rule for area approximation

$$A \approx \frac{h}{3}(d_f + 4d_m + d_l)$$

$$h = \text{distance between successive measurements}$$

$$d_f = \text{first measurement}$$

$$d_m = \text{middle measurement}$$

$$d_l = \text{last measurement}$$

Surface area

Sphere $A = 4\pi r^2$ Closed cylinder $A = 2\pi rh + 2\pi r^2$ r = radiush = perpendicular height

Volume

Cone $V = \frac{1}{3}\pi r^2 h$ Cylinder $V = \pi r^2 h$ Pyramid $V = \frac{1}{3}Ah$ Sphere $V = \frac{4}{3}\pi r^3$ r = radius h = perpendicular heightA = area of base

Sine rule $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

Area of a triangle

$$A = \frac{1}{2}ab\sin C$$

Cosine rule

$$c^2 = a^2 + b^2 - 2ab\cos C$$

or $\cos C = \frac{a^2 + b^2 - c^2}{2ab}$

Simple interest

$$I = \Pr n$$

P = initial quantity

- r = percentage interest rate per period, expressed as a decimal
- n =number of periods

Compound interest

 $A = P(1+r)^n$

- A = final balance
- P = initial quantity
- r = percentage interest rate per compounding period, expressed as a decimal

Future value (A) of an annuity

 $A = M\left[\frac{\left(1+r\right)^n - 1}{r}\right]$

M = contribution per period, paid at the end of the period

Present value (N) of an annuity

$$N = M \left[\frac{(1+r)^n - 1}{r(1+r)^n} \right]$$

or

$$N = \frac{A}{\left(1+r\right)^n}$$

Straight-line formula for depreciation

 $S = V_0 - Dn$ S = salvage value of asset after *n* periods V_0 = purchase price of the asset D = amount of depreciation apportioned per period *n* = number of periods

Declining balance formula for depreciation

$$S = V_0 (1 - r)^n$$

- S = salvage value of asset after *n* periods
- r = percentage interest rate per period,

expressed as a decimal

Mean of a sample

$$\bar{x} = \frac{\sum x}{n}$$
$$\bar{x} = \frac{\sum fx}{\sum f}$$

 \overline{x} = mean x = individual score n = number of scores f = frequency

Formula for a *z*-score

$$z = \frac{x - \bar{x}}{s}$$

s = standard deviation

Gradient of a straight line

 $m = \frac{vertical change in position}{horizontal change in position}$

Gradient-intercept form of a straight line

y = mx + bm = gradient b = y - intercept

Probability of an event

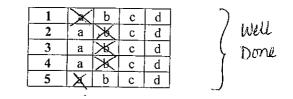
The probability of an event where outcomes are equally likely is given by:

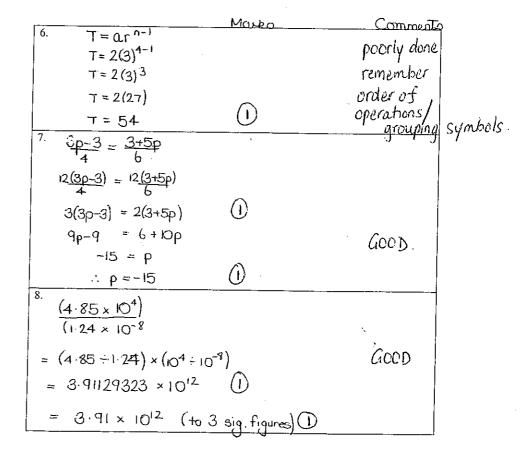
P(event) =<u>number of favourable outcomes</u> total number of outcomes

Nanie: Teacher's Name

SECTION I – ANSWER SHEET Equations and Functions (25 marks)

Multiple Choice Circle the correct answer



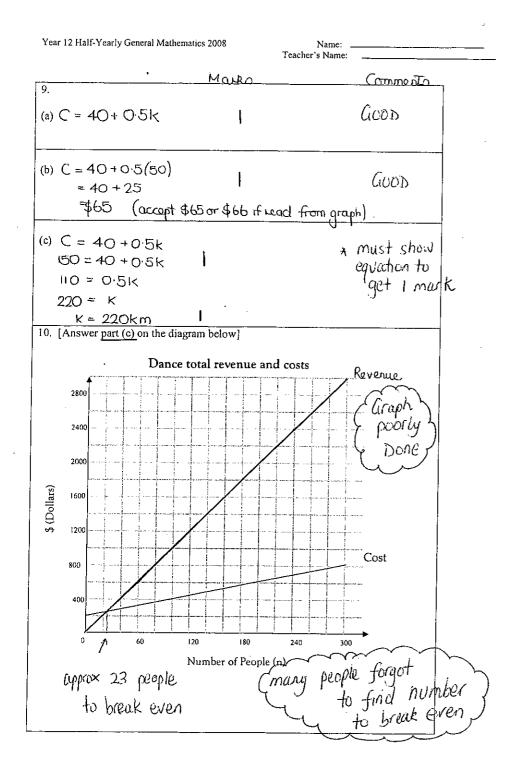


St Ignatius'College Riverview



General Mathematics Year 12 Semester One Exam 2008

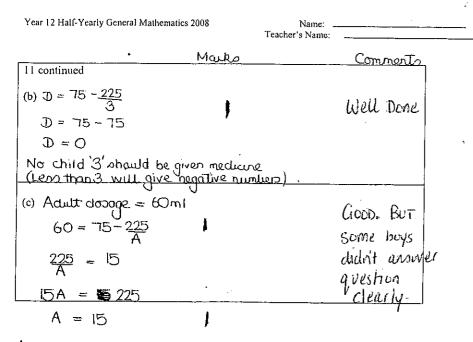
*Suggested Solutions *Markers Comments



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Name: Teacher's Name:

	Marko	Comments
10. cont		
(a) 200 → \$200 room hue	t	weil
2n → \$2 per person + attendo (n= number - attend}.		Done
·· 200+2n		
(b)		
R = 10n	, I	GOOD
(c) [Answer part (c) on the diagram	n on the previous page]	approx 25 people
(d)		
Profit = Revenue - Cost		GOOD
= 10(300) - 1200 - 12		
= 3000 - 800	(could be read	from graph) .
= \$2200	1	
(e) Profit = 10n - [200+2n		
-	_]	D I D-aa
1600 = 10n - 200 - 2n	l.	Poorly Done
1 6 00 = 8n - 200	•	- more legica
1800 = 80		working
n = 225 people	1	needed
		Very Well
$\hat{D} = 75 - \frac{225}{5}$	}	Done
D = 30 mL		
		 }



A persono can take the adult dosage at 15.

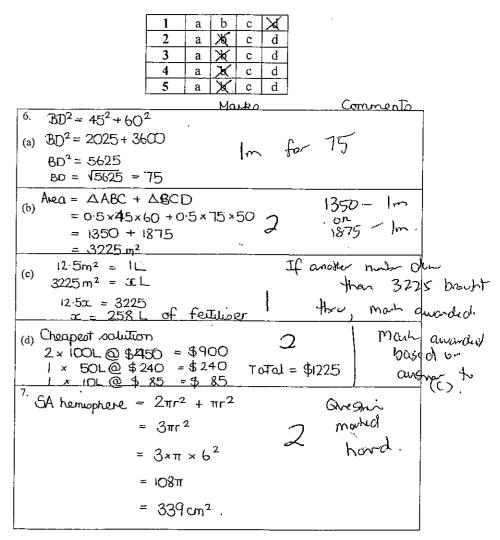
Year 12 Half-Yearly General Mathematics 2008

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SECTION II – ANSWER SHEET Area and Volume (25 marks)

Multiple Choice

Circle the correct answer



Year 12 Half-Yearly General Mathematics 2008 Name: Teacher's Name Marko CommonTo $A = \frac{h}{3} \left(d_{f} + 4d_{m} + d_{l} \right)$ $=\frac{78}{3}[51+4(48)+24]$. Subs write 1m÷ 6942 m² anno (Im) March off for any incorrect
Stoobhildeni
No march awarded for just formula. Vcone = 3 Tr2h $= \frac{1}{3} \times \pi \times 4^2 \times 12$ = д × П × 16 × 12 = 64π = 201.0619 Accepted at this = 201.1 cm 3 point (full made) Did not penalize for decunal place cross

Year 12 Half-Yearly General Mathematics 2008 Name Teacher's Name: Marko CommonTo 10. Area arrulus = $\pi \left[R^2 - \Gamma^2 \right]$ -1 If $= \pi [3^{2} - 2 \cdot 5^{2}] (1)$ = 2.75\pi 2 not correct former and ungames) (a) = 8.6 m² (b) V = Ah= 8.6 x 5⁽⁴⁾ Carof Huspo = 43m³ / / (c) weight = $43 \times 225(1)$ - canned thing Gro.J = 9675kg (tonner)? accepted. = 9.675 tones. ^{11.} $SA = 2\pi rh + 2\pi r^2$ $= 2 \times \pi \times 4.9 \times 5.2 + 2 \times \pi \times 4.9^2$ (1) Correct Wost this mark awardod - 50·96π + 48·02π *≈* 98.98π = 310.95 cm² · (20p -1) 12. Curved surface area = 2mrh $754 = 2\pi rh$ $754 = 2 \times \pi \times r \times 10$ 754 *≈* 20πr $\frac{754}{20\pi} = r$ r = 12.0 cm, (-)if not

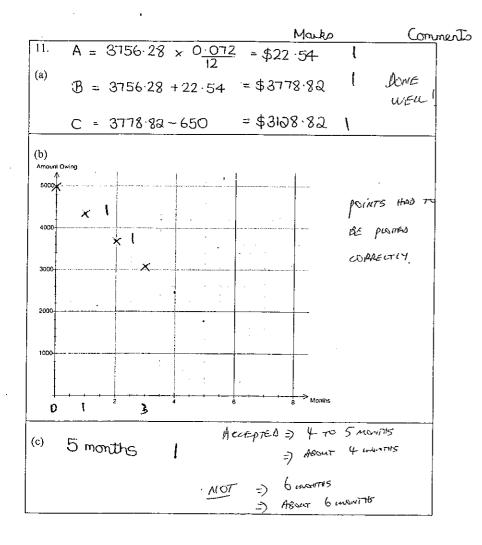
Year 12 Half-Yearly General Mathematics 2008 Name: Teacher's Name:	Year 12 Half-Yearly General Mathematics 2008	Name: Teacher's Name:
SECTION III – ANSWER SHEET Credit and Loans (25 marks)	и I = \$975 x 0·00075 x 14 = \$Ю·Q4	RO. COMMENTO SOME STUDENTS COMPOUND INTEREST,
Multiple Choice Circle the correct answer	$\frac{\text{Balance}}{=} \$975 + \$10.24$	WITCH is wrong!
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 (a) 28 days '· [IF THEMSES WHY 23 THEN 29 DAYS
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(b) $\mathbf{\overline{b}} = 617.73 \times 0.000498 \times 28$ 1 = $\$8.61$ 1	Done WELL.
7. (a) I = 5000 × 0.005 × 1 = 25 MANY STLDENTS ONLY FOUND I WITHOUT SUBTRACTIONS REPAYMENT TO	(If a student uses 29 days the arower would be \$8.92)	
Amount awing = $5000+25-200$ Find American Owing = \$4825 Time PERico is 1 net 12		
b) I2= 4825 × 0.005 × 1 = \$24.13 /+70 TO ADD 714'S TO		
Tatal interest =\$25 + \$24.13 I FOUND in 7(0). = \$49.13 (NOT DONE WELL).		
a) $87.40 \times 12 \times 25 \times 14$		
= \$367080 [DONE VERY WELL]		х Х
= \$313152 DONE VERY WELL		
Sove = \$367080 - \$313152 = \$53928		

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Year 12 Half-Yearly General Mathematics 2008

Name: Teacher's Name:



SECTION IV - ANSWER SHEET Statistical distribution (25 marks) Multiple Choice Circle the correct answer а b С 2 b С а 3 Ж b с d 4 Ж с а d 5 а С Commento Marks 6. $\bar{x} = 72.1$ * Well Answered On = 17 49 (population) * Well Answered 7. (a) $\overline{\mathfrak{T}}_{boys} = 68.08 \text{kg}$ * Well Answered Boys IQR= 73-62= 11 * Well Answered (b) -9110 IOR= 65-51=14 anuous Accepted (c) Mean (Median) and higher. OR * Well Answered Boys data is negatively skewed (Clustered un 60's, 70'3) guiss data is positively skewed (Clustered in 50's, 60'3) (clustered in 50's, 603) 8. * Well Auswered . * Aue given on paper . ie skewners, symvertry Anthony -> positively skewed Travis -> symmetrical

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11 continued

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Class	Class centre	Tally	Frequency	Cumulative frequency
_ 4	2	1	1	
9	7		0	l
0 - 14	12	ar,	3	4
5 – 19	71	лит і	6	10
) – 24	22	74	5	15
5 – 29	27	i)	2	17
- 34	32	m	3	20
10			25 30	→ Drinks Sold p
Media	2n = 20 . pt 19 or 20 19:5 acc			