METHODIST GIRLS' SCHOOL (PRIMARY) Founded in 1887



END-OF-YEAR EXAMINATION 2022 PRIMARY 5 MATHEMATICS

PAPER 1 BOOKLET A

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Name:	(
Class:	Primary 5	•
Date:	2 November 2022	

This booklet consists of 7 printed pages including this page.

2

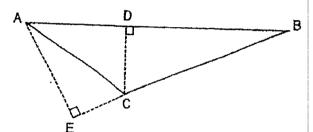
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1 In 6 475 123, which digit is in the hundred thousands place?
 - $(1) \qquad 7$
 - (2) 6
 - (3) 5
 - (4) 4
- 2 54 36 ÷ 3 x 4 = _____
 - (1) 6
 - (2) 24
 - (3) 51
 - (4) 168
- 3 10.06()km = _____ m
 - (1) 106
 - (2) 1006
 - (3) 10 006
 - (4) 10 060

4 Round 199 654 to the nearest 1000.

- (1) 190 000
- (2) 198 000
- (3) 199 000
- (4) 200 000

5 BC is the base of Triangle ABC. Which of the following is the corresponding height of Triangle ABC?



- (1) AC
- (2) AE
- (3) DC
- (4) AB

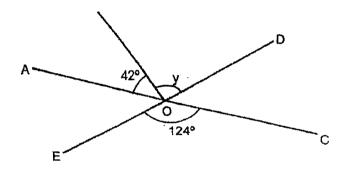
8 Find the value of $\frac{6}{5} \times \frac{1}{3}$.

- (1) $\frac{2}{5}$
- (2) $\frac{3}{4}$
- (3) $\frac{7}{8}$
- (4) $\frac{23}{15}$

7 Which one of the following is closest to 1?

- (1) $\frac{6}{7}$
- (2) $\frac{7}{6}$
- $(3) \qquad \frac{8}{9}$
- $(4) \frac{9}{8}$

8 AOC and EOD are straight lines. Find $\angle y$.



- (1) 96°
- (2) 82°
- (3) 69°
- (4) 56°

9 Express 0.053 as a percentage.

- (1) 0.053%
- (2) 0.53%
- (3) 5.3%
- (4) 53%

10 Mrs Muthu bought $\frac{3}{4}$ kg of coconut milk. She used $\frac{2}{5}$ of the coconut milk. How much coconut milk did she have left?

- (1) $\frac{9}{20}$ kg
- (2) $\frac{7}{20}$ kg
- (3) $\frac{7}{10}$ kg
- (4) $\frac{3}{10}$ kg

11 The ratio of the number of necklaces to the number of bracelets is 7 : 2.

There are 126 necklaces and bracelets altogether. How many more necklaces than bracelets are there?

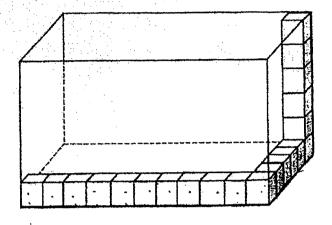
- (1) 98
- (2) 70
- (3) 18
- (4) 14

12 There are 560 performers at the stadium. $\frac{1}{4}$ of them are children. $\frac{1}{5}$ of the adults are women and the rest are men. How many men are there at the stadium?

- (1) 448
- (2) 336
- (3) 308
- (4) 252

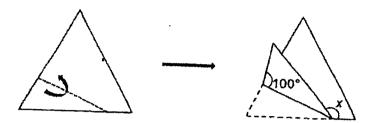
13 A rectangular glass container is partially filled with 1-cm cubes as shown.

What is the capacity of the glass container?



- (1) 275 cm³
- (2) 300 cm³
- (3) 330 cm³
- (4) 396 cm³
- Printer A prints at a rate of 50 pages per minute. Printer B prints at a rate of 40 pages per minute. How long will it take both printers to print a total of 1800 pages?
 - (1) 12 min
 - (2) .. 20 min
 - (3) 81 min
 - (4) 180 min

A plece of paper in the shape of an equilateral triangle is folded along the dotted line as shown. Find ∠x.



- (1) 20°
- (2) 40°
- (3) 140°
- (4) 160°

METHODIST GIRLS' SCHOOL (PRIMARY) Founded in 1887



END-OF-YEAR EXAMINATION 2022 PRIMARY 5 **MATHEMATICS**

PAPER 1 **BOOKLET B**

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully. Answer all questions. Write your answers in this booklet. The use of calculators is **NOT** allowed.

Name:		()	
Class:	Primary 5		
Date:	2 November 2022	Paper 1 Booklet A	/ 20
		Paper 1 Booklet B	/ 25
		Paper 2	/ 55
Parent's	Signature:	TOTAL	/ 100
		· · · · · · · · · · · · · · · · · · ·	

This booklet consists of 9 printed pages including this page.

	estions 16 to 20 carry 1 mark each. Write your answers in the spaces vided. For questions which require units, give your answers in the units ed. (5 marks)	Do not write in this space
16	243 x 3000 =	
-	Ans:	
17	Find the value of (33 + 4 x 25) - (100 - 30 + 6).	
	Ans:	
18	Mary poured 7160 ml of orange juice equally into 40 glasses. How much juice was there in each glass?	
***	Ans: ml	

. .

19	Find the are:	a of the triangle.			Do not writ in this space
		6 cm	8 cm		
			Ans:	cm²	
20	What is the m	1	the ratio below?		-
		: 8 = 28 ; 56			

Ans:

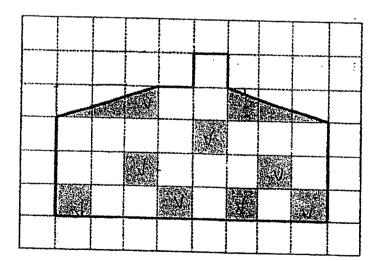
you		spaces provided. For	how your working clearly questions which require		Do not write in this space
21			Jane to swim 50 m record answer the following que		
		Day 1	22.5 s		
		Day 2	21.8 s		
		Day 3	24.5 s		
		Day 4	23.2 s		
	(b) What wa 4 days?	as the average time tal	Ans: (a) Day cen for Jane to swim 50 n	n over the	
			Ans: (b)	s	

In Jenny's class, $\frac{1}{3}$ of the pupils come to school by car, 20% of the pupils take the school bus and $\frac{1}{6}$ of the pupils walk to school. The rest of the	
take the school bus and $\frac{1}{6}$ of the pupils walk to school. The rest of the	
take the school bus and $\frac{1}{6}$ of the pupils walk to school. The rest of the) :
take the school bus and $\frac{1}{6}$ of the pupils walk to school. The rest of the	.i
6 of the publis walk to school. The rest of the	Ä.
그리 아마나는 아마는 동생 학생들은 실상성으로 가장하는 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들이 살 수 있다. 그 그 그들은 사람들은 기계를 하는 것이 되었다.	
그는 그 사는 물을 가는 그들도 함께 된 점점을 받았다. 그리고를 하는 사람들은 사람들이 가장 하는 사람들은 사람들은 사람들이 가득하는 것이다.	
class takes the MRT to school. What percentage of Jenny's class take	:::
the MRT to school?	

Do not write in this space

Ans: _______ %

Andy drew a figure in the square grid and shaded some parts. How many more square(s) must be shaded such that $\frac{3}{5}$ of the figure



23

is shaded?

Ans:

24	Sammy has a plank of wood measuring 2.1 m. He saws it into 2 pleces. One piece is 25 cm longer than the other piece. What is the length of the shorter piece of wood? Give your answer in cm.	Do not write in this space
	Ans: cm	
25	The volume of cuboid P is 2 times the volume of cuboid Q. Find the volume of cuboid Q. P 10 cm 4 cm	
	Ans: cm ³	

7

There are some books on a shelf. $\frac{3}{5}$ of the books are fiction while the rest are non-fiction. $\frac{2}{3}$ of the non-fiction books are in Chinese while the rest are in Malay. There are fewer children's fiction books than adult fiction books.

Do not write in this space

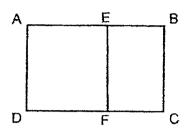
Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick (<) in the correct column.

	True	False	Not possible to tell
 (a) There are fewer children's fiction books than Malay non- fiction books. 			
(b) The greatest number of books on the shelf are adult fiction books.			

(Go	on	to	the	next	page))
-----	----	----	-----	------	-------	---

27	in the diagram, ABCD is a rectan	gle and AEFD is a square.
	The ratio of the AE to EB is 3:2.	What percentage of rectangle ABCD
	is shaded?	, -

Do not write in this space



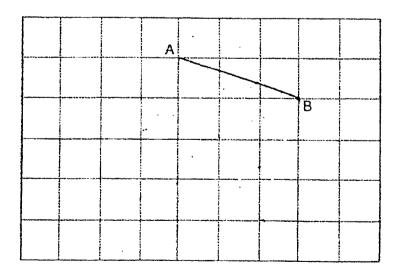
Ans:	%
------	---

28 In the square grid, the line AB has been drawn for you.

Draw a right-angled isosceles triangle ABC, where AB = BC.

Label point C.

٠,



18 cm E C 12 cm
E C
Ans: cm²

More papers available at www.sgexams.com

End of Paper

METHODIST GIRLS' SCHOOL (PRIMARY) Founded in 1887



END-OF-YEAR EXAMINATION 2022 PRIMARY 5 MATHEMATICS

PAPER 2

Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

55

Name:	()	
Class:	Primary 5	
Date:	2 November 2022	

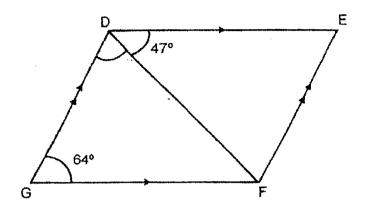
This booklet consists of 17 printed pages including this page.

	ions 1 to 5 carry 2 marks each. Show your working clearly and write y ars in the spaces provided. For questions which require units, give y		Do not write in this space
	ers in the units stated. (10 mar		in this space
•			
1	Meiling bought 3500 g of flour. She gave $\frac{1}{2}$ of it to her sister and used		
	400 g to bake a cake. How much flour had she left? Give your answer in kg.		
٠			
		1	
	Ans:	(g	
2	For every \$4 that Jimmy saved, his father gave him another \$2.50. How much would Jimmy's father have given him when he had a total of \$157?		
•			
		-	
	Ana. ¢		
	Ans: \$		

The perimeter of a rectangular room is 126 m. The ratio of the length of the room to the breadth of the room is 4 : 3. What is the length of the room?	Do not write in this space
	•
Ans: m	
	ļ
A rectangular tank measuring 30 cm by 20 cm by 25 cm is $\frac{2}{3}$ - filled with water. How many more litres of water is needed to fill the tank to the brim?	
with water. How many more litres of water is needed to fill the tank	
with water. How many more litres of water is needed to fill the tank	
with water. How many more litres of water is needed to fill the tank	

5 DEFG is a parallelogram. \angle EDF = 47° and \angle DGF = 64°. Find \angle GDF.

Do not write in this space



Ans: ______ °

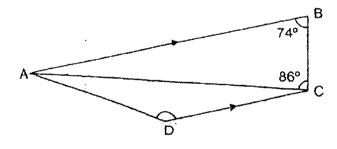
upuooo	estions to 6 to 17, show your workings clearly and write your answers in the provided. The number of marks available is shown in brackets [] at the each question or part-question. (45 marks)	Do not write in this space
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	There are 150 items in a bag. 48% of the items are pens. The rest of the items are erasers, rulers and 48 pencils. The ratio of the number of erasers to the number of rulers is the same as the ratio of the number of pens to the number of pencils. How many rulers are there in the bag?	
		·
	Ans: [3]	
7	Danny had a sum of money. He spent \$315 on a mobile phone and $\frac{3}{5}$ of the remaining money on a headphone. He then had $\frac{1}{10}$ of the sum of money left. How much money did Danny have at first?	-
		·
	Ans: [3]	

8	On Monday, the number of boys who registered for a contest was
-	three times the number of girls. On Tuesday, another 50 boys
	registered for the contest while 20 girls withdrew from it. A total of
	2454 registrations were confirmed at the end of the two days.
	How many more boys than girls registered for the contest?

Do not write in this space

[;	3	3
	[[3

ABCD is a trapezium. ACD is an isosceles triangle where AD = DC.
 ∠ABC = 74° and ∠ACB = 86°. Find ∠ADC.



, Ans: ______[3]

10	ABC is an equilateral triangle. ∠ABD = 20° and ∠ACD = 41°. BOD is a straight line.	Do not write in this space
	(a) Find∠BDC. A. D	
	20° \419	
	$egin{pmatrix} \sqrt{} & \sqrt{} \\ \mathbf{B} & \mathbf{c} \end{bmatrix}$	
••,		
٠		Verification of the second of
	·	
	Ans: (a) [2]	
:	(b) Find ∠ AOD.	

11	Figure 1 shows part of the pattern formed when identical rectangular tiles were used to completely cover a rectangular floor measuring 6.75 m by 3.6 m. Figure 2 shows an example of one such tile. How many rectangular tiles were used altogether?	Do not write in this space
	6.75 m 15 cm Figure 2 3.6 m	
	Figure 1	

12 The table shows the cost of cable car tickets.

	<u>and the second </u>	。15.15.7、1.16.12.15.15.15.15.15.15.15.15.15.15.15.15.15.
Type of Ticket	Weekdays	Weekends & Public Holidays
Adult	\$28	\$32
Child (12 years old and below)	\$20	\$24

Do not write in this space

(a) Mr Tan took a cable car ride with his wife and 2 children last Saturday. His children are 10 years old and 14 years old. How much did Mr Tan pay for the tickets altogether?

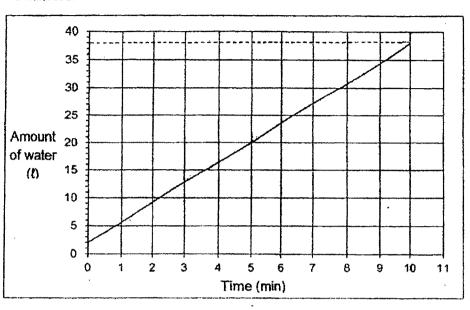
Ans: (a) ______[2]

(b) \$2520 was collected from the sale of 104 tickets on Tuesday. How many child tickets were sold on that Tuesday?

Ans: (b) ______[3]

The graph shows the rate at which water is flowing into a tank over 10 minutes.

Do not write in this space



(a) How much water was flowing into the tank per minute?

Ans: (a) _____ [1]

(b) At the end of 10 minutes, the tank was $\frac{4}{5}$ -filled with water.

Find the capacity of the tank.

Ans: (b) ______ [2]

	٠.			100				1.5			100	+ 1		100
4 4		Tho	4-1-1-	- Landing			· • • •			and the state	1.5	10 mm	1.1. (1.1.)	
1.7		1116	lable	SHOWS	me :	marks i	nntai	nod hu	lana	and C		. .	4	100
5.1				shows		a b towns total	المكاجات	HOU HY	adi ic	alluc	usar	I IOT 4	i Sijnje	2006
												,	. ~~~!~	·

	Jane	Susan
English	78	90
Mathematics	8 4	78
Science	8,5	83
Mother Tongue	79	?
Average Mark	80.5	78

(a) How many marks did Susan get for Mother Tongue?

Do not write in this space

•			l		
	••				
ins: (á)	·	[C]			
• •		[4]	ł	ĺ	

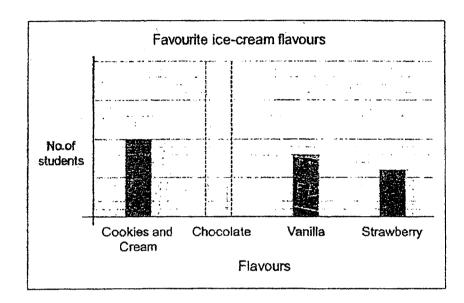
(b) Part of Jane's marks was covered by an ink blot. What was the highest possible mark that she could have gotten for Mathematics?

Ans: (b) ______[2]

15 The table shows the favourite ice-cream flavours of some students.

Ice-cream Flavours	Percentage of students
Cookies and Cream	25%
Chocolate	40%
Vanilla	20%
Strawberry	15%

Do not write in this space



(a) Based on the table, draw in the bar to represent the percentage of students who like chocolate. [1]

CHILDREN'S DAY PROMOTION!!!



1 tub: \$12.50

Buy 5 tubs, get 1 tub free!

(Price does not include 7% GST)

(b) Ms Ong wants to buy 13 tubs of ice-cream for her class. Based on the Children's Day promotion above, what is the least amount of money she needs to pay for the ice-cream including GST?

Round your answer to the nearest dollar.

Do not write in this space

Ans: (b) ______ [3]

16

Samuel has a collection of toy vehicles. $\frac{1}{3}$ of them are motorcycles.	Do not write in this space
$\frac{3}{5}$ of his remaining collection are trucks and the rest are cars.	`
$\frac{1}{4}$ of the cars are red and the rest are blue.	
(a) Samuel has 12 red cars. How many toy trucks does he have?	
Ans: (a) [1]	
(b) What fraction of Samuel's collection are blue cars?	
Ans: (b) [1]	
	1

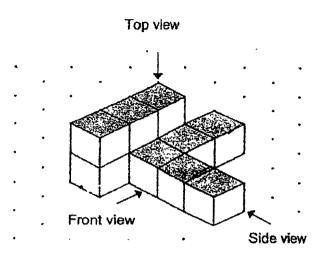
(c) Samuel's mother gave him some more motorcycles, such that $\frac{5}{8}$ of his collection are now motorcycles. How many motorcycles did Samuel's mother give him?

Do not write in this space

Ans: (c) ______[3]

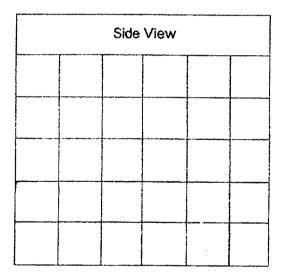
17 The solid shown is made up of 1-cm cubes.

Do not write in this space

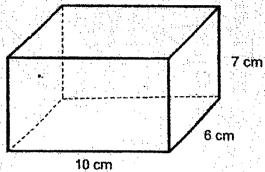


(a) Draw the side view in the square grid.

[1]



Michael placed the solid into an open rectangular box.



(b) How many more 1-cm cubes must Michael put into the box to fill it up completely?

. Ana. /h)	•	F03
Ans: (b)		[2]

(c) How many cubes touch the inside of the box when it is completely filled?

		1 1	
Ans: (c)	[2]		

END OF PAPER

: 2022

LEVEL : PRIMARY 5

SCHOOL: METHODIST GIRLS' SCHOOL (PRIMARY)

SUBJECT: MATHEMATICS

TERM. : END OF YEAR EXAMINATION

PAPER 1 (BOOKLET A)

Q1	4	Q2	1	Q3	4	Q4	4	Q5.	2
Q6	1	Q7	3	Q8	2	Q9	3	Q10	1
Q11	2	Q12	2	Q13	4	Q14	2	· · · · · · · · · · · · · · · · · · ·	3

(BOO	KLET B)
Q16	729 000
Q17	$(33 + 4 \times 25) - (100 - 30 \div 6)$
	$= (33 + 100) - (100 - 30 \div 6)$
	= 38
Q18	7160 ÷ 40 = 179ml
Q19	$\frac{1}{2}$ x 6 x 8 = 24cm ²
Q20	56 ÷ 8 = 7
	28 ÷ 7 = 4
Q21	a) Day 2
	b) 22.5 + 21.8 + 24.5 + 23.2
	= 92. 0 s
Q22	$\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$
	1 1
	2
022	Ans : 30%
Q23	$\frac{1}{3} = \frac{5}{15} = \frac{10}{30}$
	$ \frac{3}{3} = \frac{15}{18} $ $ \frac{15}{5} = \frac{30}{30} $
	5 30 18-10=8
Q24	210 - 25 = 185
	$185 \div 2 = 92.5 \text{cm}$
Q25	4 x 3 x 10 = 120
-	$120 \div 2 = 60 \text{cm}^3$
Q26	a) Not possible to tell /
	b) True /
Q27	$\frac{2}{5} \times 100\% = 40\%$
	3

Q28	A A B A B A B A B A B A B A B A B A B A
Q29	$\frac{1}{2} \times 12 \times 18 = 108$
	$\frac{1}{2} \times 12 \times 6 = 36$
	$108 - 36 = 72 \text{cm}^2$
Q30	46 ÷ 3 = 15R1
	6 x 15 = 90
	90 + 3 = 93

LEVEL : PRIMARY 5

SCHOOL: METHODIST GIRLS' SCHOOL (PRIMARY)

SUBJECT: MATHEMATICS

: END OF YEAR EXAMINATION

PA	PER	2

PAPE	R 2	
Q1	$\frac{1}{2}$ x 3500 = 1750	
	1750 - 400 = 1350	
	1.35kg	
Q2	4 + \$2.50 = \$6.50	
	$$157 \div $6.50 = 24\frac{2}{13}$	
•	24 x \$6.50 = \$156	İ
	\$157 - \$156 = \$1	
	24 x 2.50 = \$60	
Q3	14u : 126	
	1u:9	
	4u:36m	
Q4	$\frac{2}{3} \times 30 \times 20 \times 25 = 10000$!
	30 x 20 x 25 = 15 000	
	15 000 - 10 000 = 5000	
	5 litre	
Q5	64 + 47 = 111	
	180 - 111 = 69°	
Q6	Pens : Pencils	
	72:48	
	3:2	
	E:R	
	3:2	
		İ
	Pens: 48% x 150 = 72	
	150 - 72 - 48 = 30	
	E + R = 30	
	5u:30	
	1u:76	
	2u:12	
Q7	1 : 2u	
	$1u:\frac{1}{20}$	•
	10: $\frac{1}{20}$ R: $\frac{1}{4}$ of original $\frac{3}{4}$: \$420	
	3 . 215	
	4 315	
	$\frac{1}{4}$: \$420	

00	124				
Q8	2454 - 50 = 2404				
-	1	2404 + 20 = 2424			
		24 ÷ 4 = 606			
		l8 + 50 = 1868			
	1	5 – 20 = 586			
-	~+	58 - 586 = 1282			
Q9	(74 + 86 = 160			
	1) – 1 60 = 20			
	180	$-20-20=140^{\circ}$			
Q10	(a)	60 - 20 = 40			
1		20 + 60 = 80			
		180 - 80 = 100			
1		41 + 60 = 101			
	\parallel	101 + 40 = 141			
		180 - 141 = 39°			
	b)	80°			
Q11	15 -	- 2 = 7.5			
]	15 x	7.5 = 112.5			
İ	6.75	m : 675cm			
	3.6n	n : 360cm			
	675	x 360 = 243 000			
	243	$000 \div 112.5 = 2160 \text{cm}^2$			
Q12	a)	32 x 3 = 96			
		96 + 24 = \$120			
	b)	Suppose all are adult			
		Total: 28 x 104 = 2912			
		Extra: 2912 – 2520 = 392			
ļ	-	Diff: 28 – 20 = 8			
		Opposite: 392÷ 8 = 49			
Q13	a)	38 - 2 = 36			
77		36 ÷ 10 = 3.68			
	b)	4 : 38			
		$\frac{1}{5}$: 9.5			
1		$\frac{5}{5}$: 9.5 x 5 = 47.5 e			
Q14	a)	78 x 4 = 312			
		312 - 90 - 83 - 78			
		= 61			
1	b)	80.5 x 4 = 322			
		322 - 78 - 79 = 165			
		Sci : lowest possible			
	1	165 – 80 = 85			

		
Q15	a)	Favourite ice-cream flavours
		No. 31 studenia
		No.of
		students
		Cookies and Chocolate Vanilla Strawberry Cream
		Flavours
	b)	1 set : 6 tubs (\$62.50)
	1	2 sets : 12 tubs (\$125)
		125 + 12.50 = 137.50
		107% x 137.50 = 147.125
	1	≈ \$147.00
Q16	a)	12 x 4 = 48
		12 x 3 = 36
		48 ÷ 2 = 24
		24 x 3 = 72
	b)	$\frac{2}{2} + \frac{2}{2} = \frac{4}{2}$
		$\frac{2}{5} + \frac{2}{3} = \frac{4}{15}$ $\frac{3}{4} \times \frac{4}{15} = \frac{3}{15}$
-		$\begin{bmatrix} \frac{3}{4} & \frac{4}{15} = \frac{3}{15} \\ \frac{3}{3} & \frac{1}{15} \end{bmatrix}$
		\(\frac{3}{15} = \frac{4}{5}\)
	c)	Car: 12 x 4 = 48
		trucks : 72
		Cart trucks : 72 + 48 = 120 ($\frac{3}{8}$ of total)
		$\frac{1}{8}$ of total: 120 ÷ 3 = 40
		$\frac{5}{8}$ of total : 40 x 5 = 200
		MG: 200 – 60 = 140
Q17	a)	Side View
ŀ		
	b)	10 x 6 x 7 = 420
	_,	420 – 11 =409
	c)	10 x 7 = 70
		70 x 2 = 140
		(6-2) x 7 = 28.
		28 x 2 = 56
•		4 x 8 = 31
		140 + 32 + 56 = 228