# 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.

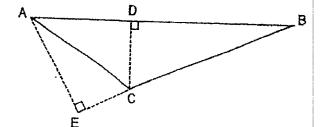
Name:	(	
Class:	Primary 5	
Date:	2 November 2022	

This booklet consists of 7 printed pages including this page.

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 10.060km = \_\_\_\_\_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?

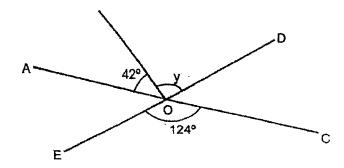


- (1) AC
- (2) AE
- (3) DC
- (4) AB
- 6 Find the value of  $\frac{6}{5} \times \frac{1}{3}$ .
  - (1)  $\frac{2}{5}$
  - (2)  $\frac{3}{4}$
  - (3)  $\frac{7}{8}$
  - (4)  $\frac{23}{15}$

7 Which one of the following is closest to 1?

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

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%

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.

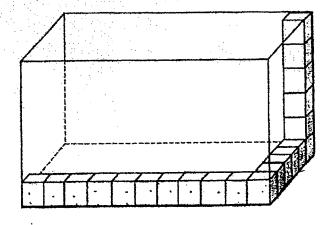
- There are 126 necklaces and bracelets altogether. How many more necklaces than bracelets are there?
  - (1) 98
  - (2) 70
  - (3) 18
  - (4) 14

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

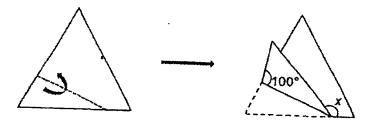
13 A rectangular glass container is partially filled with 1-cm cubes as shown.

What is the capacity of the glass container?



- (1) 275 cm<sup>3</sup>
- (2) 300 cm<sup>3</sup>
- (3) 330 cm<sup>3</sup>
- (4) 396 cm<sup>3</sup>
- 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.

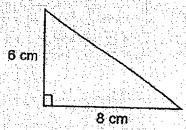
	( )	
Primary 5	,	
2 November 2022	Paper 1 Booklet A	/ 20
	Paper 1 Booklet B	/ 25
	Paper 2	/ 55
Signature:	TOTAL	/ 100
	2 November 2022	2 November 2022 Paper 1 Booklet A Paper 1 Booklet B Paper 2

This booklet consists of 9 printed pages including this page.

	estions 16 to 20 carry 1 mark each. Write your answers in the spaces rided. For questions which require units, give your answers in the units ed. (5 marks)	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	<u> </u>

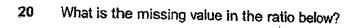
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-	_			3 3 4 4 4			
1	м	- ind	1100	~~~	~ ~ *		triangle.
			uio	alc	a u	11111	INSOUR



Do not write in this space

Ans:		cm²
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	:	8	=	28	:	56

Ans: \_\_\_\_

21		ows the time taken for .s. Study the table and			
		Day 1	22.5 s		
		Day 2	21.8 s		
		Day 3	24.5 s		
	[	Day 4	23.2 s		
	(b) What was 4 days?	as the average time tak	Ans: (a) Day _ ken for Jane to swirn 5	0 m over the	

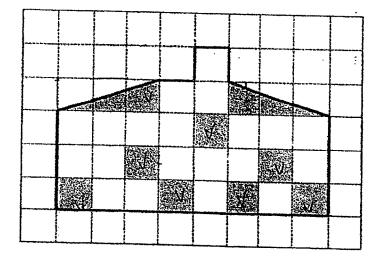
In Jenny's class,  $\frac{1}{3}$  of the pupils come to school by car, 20% of the pupils take the school bus and  $\frac{1}{6}$  of the pupils walk to school. The rest of the class takes the MRT to school. What percentage of Jenny's class takes the MRT to school?

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 is shaded?



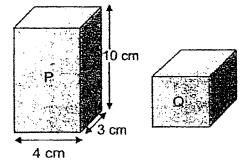
Ans:

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.



Ans:	cm <sup>5</sup>



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.

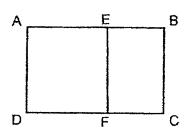
Do not write in this space

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.			

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

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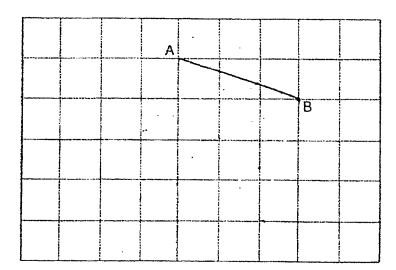


Ans:		%
------	--	---

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.



(Go on to the next page)

ABC is an isosceles triangle. AO is twice the length of OE.  AE = 18 cm and BC = 12 cm. Find the area of the unshaded part.	Do not writ
18 cm  B E C  12 cm	
Ans: cm²	
Kumar made a pattern using three different shapes: stars, triangles and circles. The first 18 shapes in the pattern are shown.  **There were 46 triangles in the pattern. What was the greatest number of shapes in the pattern?	
Ans:	

**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		

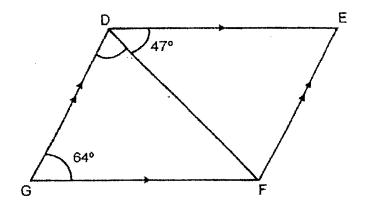
This booklet consists of 17 printed pages including this page.

answe	ions 1 to 5 carry 2 marks each. Show your working clearly and write your ers in the spaces provided. For questions which require units, give your ers in the units stated.  (10 marks)	Do not write in this space
	1	
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.	
	Ans: kg	
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?	
	•	
	Ans: \$	

3	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	Do not write in this space
	the room?	
***		
	Ans: m	
Ĭ	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?	
	Ans:	

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

Do not write in this space



Ans: \_\_\_\_\_\_ °

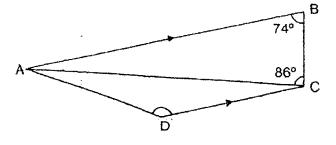
upuuuu	estions to 6 to 17, show your workings clearly and write your answers in provided. The number of marks available is shown in brackets [ ] at each question or part-question. (45 ma	the	Do not write in this space
6	There are 150 items in a bag. 48% of the items are pens. The rest of the items are 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	31	
		-	L

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

- Ans: \_\_\_\_\_ [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. $\angle$ ABD = 20° and $\angle$ ACD = 41°. BOD is a straight line.	Do in th	not write iis space
	(a) Find ∠BDC. A		
	200		
• • • · · · · · · · · · · · · · · · · ·			
•	·.		
	Ans: (a)	[2]	
:	(b) Find ∠ AOD.		
	Ans: (b)	[2]	

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

Ans:

[3]

Weekdays

\$28

The table shows the cost of cable car tickets.

Type of Ticket

Adult

Weekends & Public	
Holidays	
\$32	

Do not write in this space

Child \$20 \$24 (12 years old and below) 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?

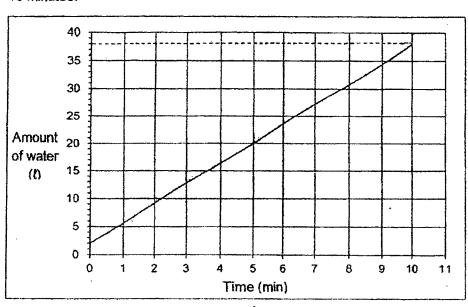
Ans: (a)	[2]	
(ш)	[2]	]

(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.





(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]



14	! . "	The	table alexan	. Al			usan for 4 subjects.
	,	1116	I Ladia Slioms	ine marks	Obtained hu	/ lane and Q	man for a muchicular
						Course alle O	man iul 4 Sudiects

	Jane	
English	78	Susan
		90
Mathematics	8	78
Science	8	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

	···•		
Ans: (a)		[2]	

(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%

No.of students

Cookies and Chocolate Vanilla Strawberry Cream

Flavours

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

Do not write in this space

## 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]	

15

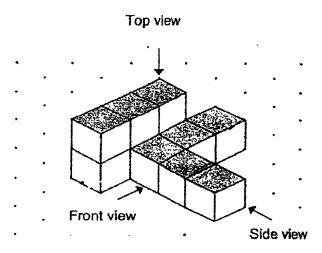
(c) Samuel's mother gave him some more motorcycles, such that  $\frac{5}{8}$  of his collection are now motorcycles. How many motorcycles did Samuel's mother give him?

Do not write in this space

Ans: (c) \_\_\_\_\_\_[3]

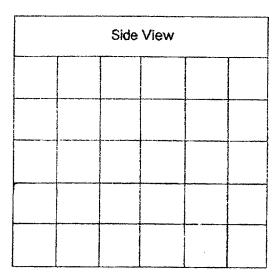
17 The solid shown is made up of 1-cm cubes.

Do not write in this space

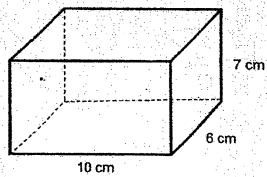


(a) Draw the side view in the square grid.

[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?

	· ·	
Ans: (b)		[2]
		رڪي

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

Ans: (c) \_\_\_\_\_[2]

YEAR : 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	05	2
Q6	1	Q7	3	Q8	2	Q9	3	Q10	1
Q11	2	Q12	2	Q13	4	Q14	2		3

(BOOKLET B)

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

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

YEAR : 2022

LEVEL : PRIMARY 5

SCHOOL: METHODIST GIRLS' SCHOOL (PRIMARY)

**SUBJECT: MATHEMATICS** 

TERM : END OF YEAR EXAMINATION

PA	PER	2

PAPE	R 2	그 그 그리고 이 그래 시스템은 그는 생각이 있다.
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	f .
	\$157 - \$156 = \$1	
	24 x 2.50 = \$60	
Q3	14u:126	
	1u:9	
	4u:36m	
Q4	$\frac{2}{3}$ x 30 x 20 x 25 = 10 000	!
	$30 \times 20 \times 25 = 15000$	
	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	
	Pens : 48% x 150 = 72	
	150 - 72 - 48 = 30	
	E + R = 30	
	5u:30	
<u> </u>	1u:76	
	2u: 12	
Q7	$\frac{1}{10}$ : 2u	
	$1u:\frac{1}{20}$	
	$1u: \frac{1}{20}$ $R: \frac{1}{4} \text{ of original}$	
	$\frac{3}{4}:315$ $\frac{4}{4}:$420$	
	4 . \$420	
<u></u>	4 - 3420	

Q8	2454 - 50 = 2404
Qo	2404 + 20 = 2424
Annua Cara	$2424 \div 4 = 606$
	· · · · · · · · · · · · · · · · · · ·
	1818 + 50 = 1868
	606 - 20 = 586
00	1868 – 586 = 1282
Q9	74 + 86 = 160
	180 - 160 = 20
040	180 - 20 - 20 = 140°
Q10	a) 60 – 20 = 40
	20 + 60 = 80
	180 - 80 = 100
1	41 + 60 = 101
	101 + 40 = 141
	180 - 141 = 39°
	b)   80°
Q11	15 ÷ 2 = 7.5
	15 x 7.5 = 112.5
1	6.75m : 675cm
]	3.6m : 360cm
1	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
	Diff: 28 – 20 = 8
	Opposite : 392÷ 8 = 49
Q13	a) 38 – 2 = 36
***************************************	$36 \div 10 = 3.68$
1	b) $\frac{4}{5}$ : 38
	$\left \frac{1}{5}:9.5\right $
	$\frac{5}{5}$ : 9.5 x 5 = 47.5 &
Q14	a) 78 x 4 = 312
	312 - 90 - 83 - 78
	= 61
	b) 80.5 x 4 = 322
	322 - 78 - 79 = 165
	Sci : lowest possible
	165 - 80 = 85

	-	
Q15	a)	Favourite ice-cream flavours
		sto at affective No. of students.
		Cookies and Chocolate Vanilla Strawberry Cream: Flavours
	(b)	1 set : 6 tubs (\$62.50)
		2 sets : 12 tubs (\$125)
	ļ	125 + 12.50 = 137.50
Į.		107% x 137,50 = 147,125
	ļ	≈ \$147.00
Q16	a)	12 x 4 = 48
		12 x 3 = 36
.		48 ÷ 2 = 24
		24 x 3 = 72
	b)	$ \frac{\frac{2}{5} + \frac{2}{3} = \frac{4}{15}}{\frac{3}{4} \times \frac{4}{15} = \frac{3}{15}} $
ļ		15 = 5 15 = 5
	c)	Car: 12 x 4 = 48
		trucks : 72
anne de la constante de la con		Cart trucks : 72 + 48 = 120 ( $\frac{3}{8}$ of total)
Andria des		$\frac{1}{8}$ of total: 120 ÷ 3 = 40 $\frac{5}{8}$ of total: 40 x 5 = 200
		MG: 200 – 60 = 140
Q17	a)	Side View
	b)	$10 \times 6 \times 7 = 420$
		420 – 11 =409
	c)	10 x 7 = 70
		70 x 2 = 140
]		$(6-2) \times 7 = 28$ .
		28 x 2 = 56
į		4 x 8 = 31
[ ]	- 1	140 + 32 + 56 = 228