

TERM 1 WEIGHTED ASSESSMENT 2022

PRIMARY 6

MATHEMATICS PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Write your answers in this booklet.
- 5. The use of an approved calculator is allowed.

Name: ()	
Class: Primary 6 ()	•	
Parent's Signature:	Booklet A	/ 20
	Booklet B	/ 25
	Paper 2	/ 55
	Total	/ 100

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Ji Eun had $6\frac{3}{4}$ m of cloth at first. She used $3\frac{7}{10}$ m of the cloth to make some shirts. She then bought $4\frac{2}{5}$ m of cloth. How many metres of cloth did she have in the end?

Ans: _____ m

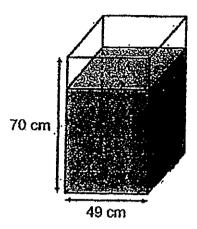
The area of a rectangle is $1\frac{11}{25}$ m². What is the total area of 4 such rectangles?

Ans: ______ m²

3	The price of a pair of sneakers is \$190 before GST. What is the price of the sneakers after adding 7% GST?
	Ans: \$
4	The average cost of a calculator and a storybook is \$36. The storybook costs $\frac{1}{3}$ as much as the calculator. What is the cost of the calculator?
	Ans: \$
5	At 9 a.m., a tap was turned on to fill an empty tank at a rate of 6 & per minute. At 9.05 a.m., another tap was turned on to fill the same tank at a rate of 3 & per minute. At what time were there 75 & of water in the tank?
	Ans:

space	s pro	ons 6 to 17, show your working clea ovided. The number of marks avail each question or part-question.	lable is shown in bracke	
6 .	48%	of a number is 312.		
	(a)	What is the number?		
	(b)	What is 66% of the number?		
		Ans	: (a)	[2]
			(b)	[1]
7 The prices of masks sold in a pharmacy are sh			are shown in the table	below.
	Fire	st 50 masks	\$8.00	
	Ne:	xt 50 masks	\$0.15 per mask	
	Add	ditional masks above 100 masks	\$0.10 per mask	
		e wants to buy 135 masks. What has to pay?	is the least amount of m	oney
		Ans	S:	[3]

A rectangular tank with a square base is $\frac{5}{7}$ —filled with water as shown below. Find the volume of water in the tank. Give your answer in litres and millilitres.

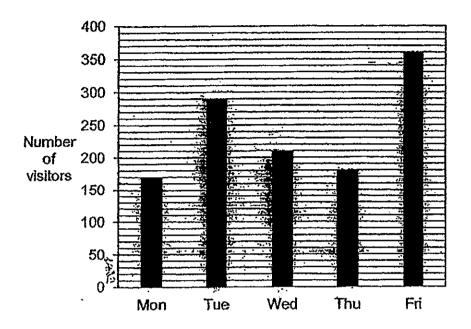


[3]
[3

- 9 Mr Tan had 8 kg of peanuts in a sack at first. He packed the peanuts into bags. Each bag contained $\frac{3}{8}$ kg of peanuts.
 - (a) What was the greatest number of bags he could fill with $\frac{3}{8}$ kg of peanuts each?
 - (b) Find the mass of the peanuts left unpacked in the sack.

Ans:	(a)	 [1]	
		 L . 1	ı

10 The bar graph below shows the number of visitors to a park from Monday to Friday last week.

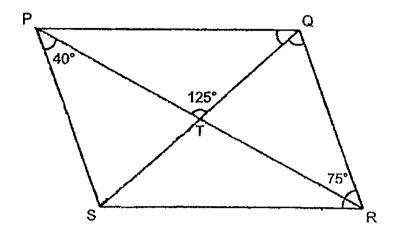


- (a) What was the average number of visitors from Monday to Friday last week?
- (b) The average number of visitors on Saturday and Sunday was twice the average number of visitors from Monday to Friday last week. Write down one possible set of values for the number of visitors on Saturday and Sunday.

Ans: (a) [1]

(b) _____[2]

PQRS is a parallelogram. PTR and STQ are straight lines. \angle SPT = 40°, \angle PTQ = 125° and \angle SRQ = 75°.



- (a) Find ∠PQT.
- (b) Find ∠TQR.

12	At first, Tze Peng baked a total of 120 chocolate cupcakes and vanilla
	cupcakes. The ratio of the number of chocolate cupcakes to the
	number of vanilla cupcakes was 1:3 at first. He then bought some
	chocolate cupcakes. After that, 60% of the total cupcakes were
	chocolate cupcakes.

- (a) What was the ratio of the number of vanilla cupcakes to the number of chocolate cupcakes in the end?
- (b) How many chocolate cupcakes did Tze Peng buy?

Ans:	(a)	 [1]
	(b)	 [3]

In a library, 45% of the books are English books, $\frac{3}{5}$ of the remaining books are Chinese books and the rest are Malay books. The difference between the number of Chinese books and Malay books is 176. How many English books are there in the library?

Ans: _____ [4]

 (a) How much did Iskandar pay for the washing machine? (b) He paid \$76.80 for a hair dryer. The total discount for the washing machine and the hair dryer was \$465.20. Express the discount for the hair dryer as a percentage of its original price. 	14		original price of a washing machine was \$1380. Iskandar bought a 30% discount during a sale.
machine and the hair dryer was \$465.20. Express the discount for the hair dryer as a percentage of its original price.		(a)	How much did Iskandar pay for the washing machine?
		(b)	machine and the hair dryer was \$465.20. Express the discount for
•			
Ans: (a)[1]			Ans: (a) M1

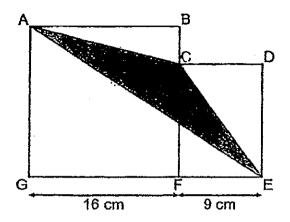
(b) _

[3]

- Mrs Lim had some money at first. She spent $\frac{1}{3}$ of it on a blouse and $\frac{1}{6}$ of the remaining money on a skirt. After her husband gave her \$484, she then had the same amount of money as she had at first.
 - (a) How much money did she spend on the skirt?
 - (b) How much money did she have at first?

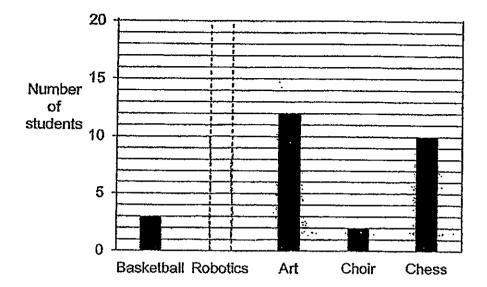
Ans:	(a)	 [2]
	(b)	 [2]

In the figure below, ABFG is a square and CDEF is a rectangle. BCF and GFE are straight lines. CF is thrice as long as BC. Find the area of triangle ACE.



Ans: ______[5]

17 The bar graph below shows the Co-Curriculum Activities (CCA) the students in Class 6B joined. Every student in Class 6B joined only one CCA.



[2]

- (a) Each student in Chess CCA paid \$9 to buy a Chess CCA t-shirt. The amount of money collected from the boys was \$18 more than the amount of money collected from the girls. What was the ratio of the number of boys to the number of girls in Chess CCA? Give your answer in the simplest form.
- (b) The ratio of the number of students who joined Art CCA to the total number of students who joined Basketball CCA, Robotics CCA and Choir CCA was 4: 5. Draw and shade the bar to show the number of students who joined Robotics CCA.

Ans:	(0)	rα
AU2.	(a)	 [3]



Questions 1 to 5 carry 2 marks each. Show your working dearly and write your enswers in the spaces provided. For questions which require units, give your answers in the units stated.

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Ans:	7 9/20	m

The area of a rectangle is $1\frac{11}{25}$ m². What is the total area of 4 such

	5袋	
Ans:		-
7815.		341

For quastions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

48% of a number is 312.

- (a) What is the number?
- (b) What is 86% of the number?
- $\begin{array}{l}
 1\% \rightarrow \frac{312}{48} \\
 100\% \rightarrow \frac{312}{48} \times 100 \\
 = 650 \left(aus (a) \right)
 \end{array}$

The prices of masks sold in a pharmacy are shown in the table below.

First 60 masks	\$8.00
Next 50 masks	\$0.15 per mask
Additional masks above 100 masks	\$0.10 per mask

Rose wants to buy 135 masks. What is the least amount of money

\$8+\$7:50+\$3:50=\$19(915)

The price of a pair of sneakers is \$190 before GST. What is the price of the sneakers after adding 7% GST?

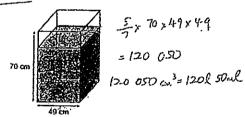
$$100\% + 7\% = 107\%$$

$$\frac{107}{100} \stackrel{$\neq 150}{$\neq 203.30} (ans)$$

The average cost of a calculator and a storybook is 536. The storybook costs $\frac{1}{3}$ as much as the calculator. What is the cost of the calculator?

At 9 a.m., a tap was turned on to fill an empty timk at a rate of 6 I per minute. At 9.05 s.m., another top was turned on to fill the same tank at a rate of 3 (per minute. At what time were there 75 (of water in the

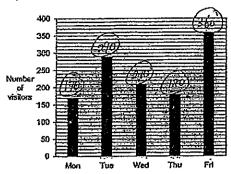
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- Mr Tan had 8 kg of peanule in a cack at first. He packed the peanula into bags. Each bag contained $\frac{3}{8}$ kg of pecanula.
 - (a) What was the greatest number of bags he could fit with $\frac{3}{8}$ kg of
 - (b) Find the mass of the peanuts left unpacked in the sack.

$$8 \div \frac{3}{8} = \frac{8}{7} \times \frac{8}{3}$$
.
 $= 2/\frac{1}{2} \approx 21$ packets (am (1))
 $1 \cdot \frac{1}{8} \times \frac{3}{8} = \frac{1}{8}$.
 $\frac{1}{8} \times \frac{3}{8} = \frac{1}{8}$.

10 The bar graph below shows the number of visitors to a park from Monday to Friday last week.

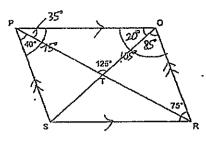


- (a) What was the average number of visitors from Monday to Friday last wock?
- (b) The average number of visitors on Saturday and Sunday was Mice the average number of visitors from Monday to Friday last week. Write down one possible set of values for the number of visitors on Saturday and Sunday.

- 12 At first, Tze Peng baked a total of 120 chocolate cupcakes and vanilla cupcakes. The ratio of the number of chocolate cupcakes to the number of vanilla cupcakes was 1:3 at first. He then bought sema chocolate cupcakes. After that, 80% of the total cupcakes were chocolate cupcakes.
 - (a). What was the ratio of the number of vanilla cupcakes to the number of chocolate cupcakes in the emi?
 - (b) How many chacolate cupcakes did 7ze Peng buy?

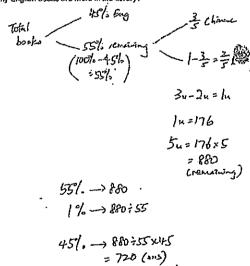
CIVIEW /	120 total
14 34 44 +? 6024 4024 100220 3 p 2p 5p	4u= 120 1u= 120÷4 = 30 3u=30x3
V:C- 2:3(ms)	= 90 Vanille at 1st 2p = 90 1p = 90 + 2 = 45 3p = 45 x 3 = 105 (and)

11 PORS is a parallelogum. PTR and STQ are straight lines. ZSPT = 40°, ZPTQ = 125° and ZSRQ = 75°.



- (a) Find ZPQT.
- (b) First ZTOR.

13 In a library, 45% of the books are English books, 3/5 of the remaining books are Chinese books and the rest ere Melay books. The difference between the number of Chinese books and Malay books is 176. How many English books are there in the library?



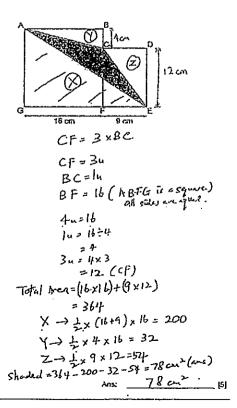
Ans: 720 [4]

7

- 14 The original price of a washing machine was \$1380. Iskendar bought it at a 30% discount during a sale.
 - (a) How much did Iskander pay for the washing machine?
 - (b) He paid \$76.80 for a hair dryer. The total discount for the washing machine and the hair dryer was \$465.20. Express the discount for the hair dryer as a percentage of its original price.

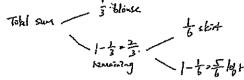
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9



31

- 15 Mrs Lim had some money at first. She spent 1/3 of it on a blouse and 1/8 of the remaining money on a skid. After her husband gave her \$464, she than had the same arrount of money as she had at first.
 - This eff he bears of bis renom four welf (s)
 - (b) How much money did she have at first?



\$484 -> first by hidband,

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arount at 15t)

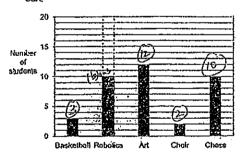
here when she had spect

= what she was given

Stirt $\rightarrow \frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$ $\frac{1}{3} + \frac{1}{9} = \frac{3}{9} + \frac{1}{9}$ bloom stirt $\Rightarrow \frac{1}{9} \rightarrow 4891$ $\Rightarrow \frac{1}{9} \rightarrow 4184 \div 44$ $\Rightarrow \frac{1}{9} \rightarrow 4184 \div 44$ $\Rightarrow \frac{1}{9} \rightarrow 1184 \div 4$

17 The bar graph below shows the Co-Curriculum Activities (CCA) the students in Class 68 joined. Every student in Class 68 joined only one CCA.

10



- (a) Each student in Chess CCA paid \$9 to buy a Chess CCA I-strict. The amount of money collected from the boys was \$18 more from the amount of money collected from the girls. Vihat was tive ratio of the number of boys to the number of girls in Chess CCA? Give your answer in the simplest form.
- (b) The ratio of the number of students who joined Art CCA to the total number of students who joined Basketball CCA, Robolics CCA and Choir CCA was 4:5. . Draw and shade the harter sliow fire number of students who joined Robotics CCA.

51 1

12