

2024 P6 WA1 MATH NAN HUA PRIMARY SCHOOL

DETAILED SOLUTIONS

Detailed solutions are crafted following the methods taught at Thinker Education and are offered as a guiding reference. Any logically sound mathematical answers are accepted.

To obtain the blank question paper for your child to attempt, please Whatsapp us at 9831 9770.



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DETAILED SOLUTIONS

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Nan Hua Primary School Primary 6 Mathematics Term 1 Non-Weighted Assessment 2024 Paper 1

Name:		()
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Mar	·ks
Section A:	/6
Section B:	/12
Total:	18

Class: Primary 6M____

Date:

 (\cdot)

Duration: 25 min

Parent's Signature

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Use dark blue or black ball point pen to write your answers in the space provided for each question.
- 6. Do not use correction tape/ fluid/ highlighter.
- 7. The use of calculators is NOT allowed.

This booklet consists of 7 printed pages and 1 blank page.

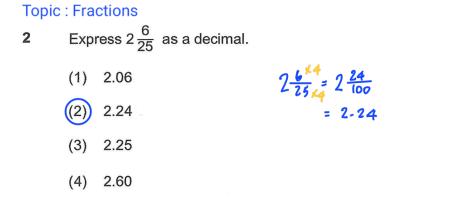
Section A

Questions 1 to 4 carry 1 mark each. Question 5 carries 2 marks. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer in the brackets.

Topic : Fractions

1 Arrange the following fractions from the greatest to the smallest.

			$\frac{3}{4}$,	$\frac{4}{5}$,	5 6
Gr	eatest		Smalles	t	
(1)	$\frac{4}{5}$,	$\frac{3}{4}$,	<u>5</u> 6		
(2)	$\frac{5}{6}$	$\frac{4}{5}$,	$\frac{3}{4}$		
(3)	$\frac{3}{4}$,	5 6	4 5		
(4)	$\frac{4}{5}$,	$\frac{5}{6}$,	$\frac{3}{4}$		



3×15 4×12 5×10 4×15 5×12 6×10

 $\frac{45}{60}$, $\frac{48}{60}$, $\frac{50}{60}$

Smalles+

greatest

(6 marks)

2

)

)

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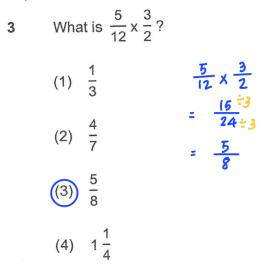
(2

Topic : Fractions

1.

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Topic : Fractions

- 4 $\frac{2^{\times 4}}{3^{\times 4}} \frac{?}{12} = \frac{1}{4^{\times 3}} \frac{\times 3}{12}$ What is the missing number? (1) 1 (2) 5
 - (3) 3
 - (4) 1⁻

(2)

Topic : Percentage

(4) \$220

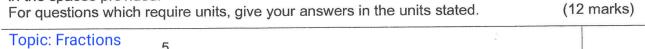
5 A handbag cost \$250. Kelly bought the bag and was given a 20% discount. She had to pay 8% GST on the discounted price. How much did she pay for the handbag inclusive of the GST? Price after discount = $\frac{80}{100} \times 250$ (1) \$180 = 200 (2) \$184 Price after $GST = \frac{108}{100} \times 200$ \$216 (3) = 216

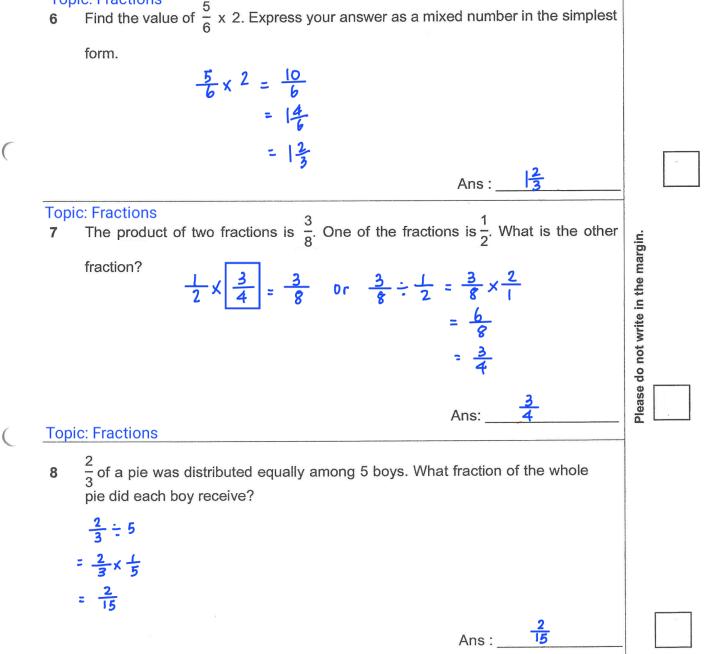
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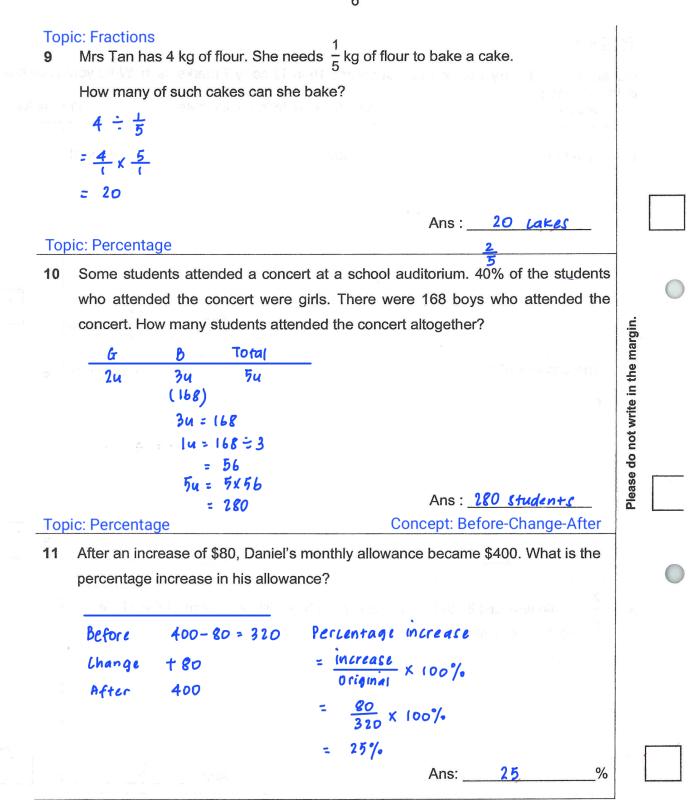
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Section B

Questions 6 to 9 carry 1 mark each. Questions 10 to 13 carry 2 marks each. Write your answers in the spaces provided.

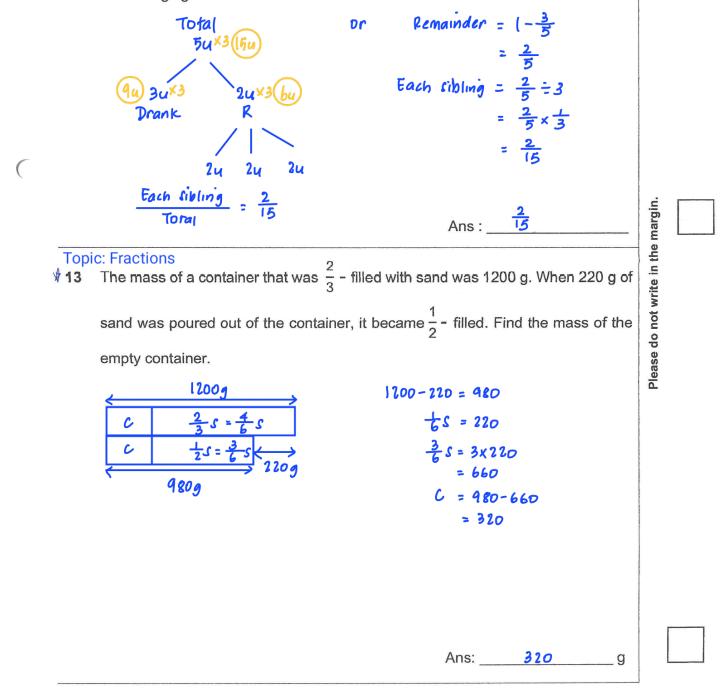






Topic: Fractions

12 Jenny made some milkshake. She drank $\frac{3}{5}$ of it and her three siblings shared the remainder equally. What fraction of the original amount of milkshake did each of her siblings get?



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Nan Hua Primary School Primary 6 Mathematics Term 1 Non-Weighted Assessment 2024 Paper 2

N	larks
Total:	12

Name: _____ ()
Class: Primary 6M____

Date: _____

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Duration: 20 min

Parent's Signature

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the space provided.
- 2. Do not turn over the page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Use dark blue or black ball point pen to write your answers in the space provided for each question.
- 6. Do not use correction tape/ fluid/ highlighter.
- 7. The use of calculators is allowed.

This booklet consists of 4 printed pages.

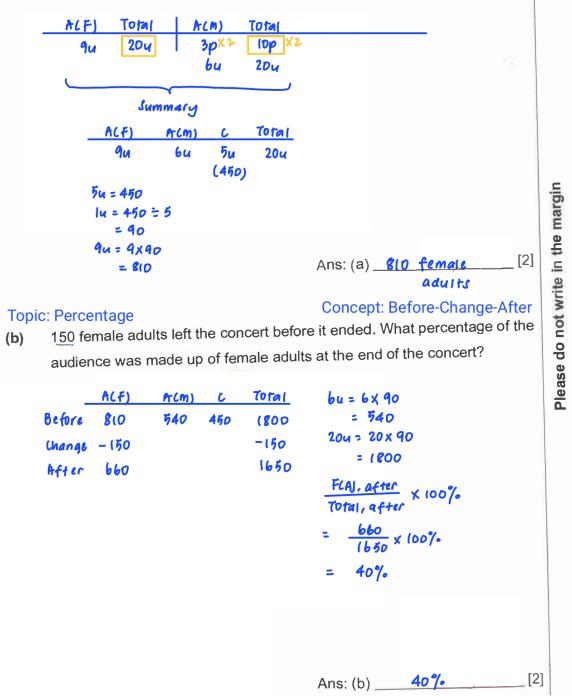
For questions **1** to **3**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or partquestion. (12 marks)

There were 520 principals at a conference. $\frac{2}{5}$ Concept: Remainder Concept of them were primary school **Topic: Fractions** 1 principals. $\frac{1}{4}$ of the remainder were junior college principals. The rest were secondary school principals. Find the number of secondary school principals at the conference. Tota(20u = 520 54×4 520-20 $9u = 9 \times 26$ 24×4 = 234 Pri Please do not write in the margin. D 30 Sec

Ans : 234 principale [3]

- At a concert, 45% of the audience were female adults, 30% were male adults and the rest were children. There were 450 children at the concert.
 Topic: Percentage Concept: Repeated Identity
 - (a) How many female adults were there at the concert?

(

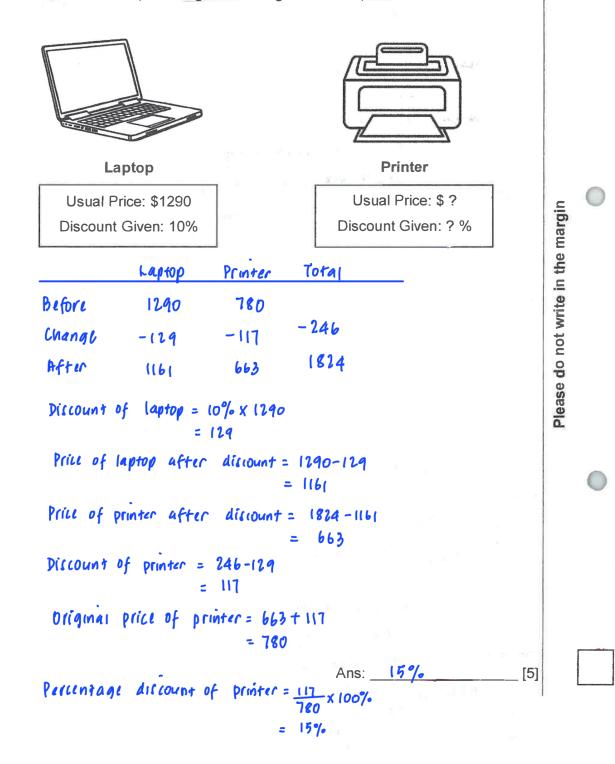


3

Topic: Percentage

Concept: Before-Change-After

3 Mr Chan bought a laptop and a printer from a shop. He paid a total of \$1824 for these two items after discount. The total discount given for the laptop and printer was \$246. Find the percentage discount given for the printer.



4



2024 P6 WA1 MATH PEI HWA PRESBYTERIAN PRIMARY SCHOOL

DETAILED SOLUTIONS

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For Thinker parents, the respective levels' blank question papers and detailed solutions have been uploaded to Teams.

For others, please Whatsapp us at 9831 9770 to obtain the question papers for your child to practise.



DETAILED SOLUTIONS

Pei Hwa Presbyterian Primary Schoo Mathematics Primary 6 Weighted Assessment 1	40
Name:()	Class: 6R/6M
Date: Parent's S	ignature:
Questions 1 to 5 carry 2 marks each. Show your working clearly answers in the spaces provided. For questions which require answers in the units stated. Calculator is allowed.	and write your Inits, give your (10 marks)
1. (a) Find the value of $5\frac{2}{3} + 3\frac{5}{7}$	
5 3×7 3 5×3	
$= 5\frac{14}{21} + 3\frac{15}{21}$	
= $8\frac{24}{2t}$ = $9\frac{8}{2t}$ Ans (a): $-\frac{9\frac{8}{2}}{2t}$	
	$\begin{array}{c} possible & anchers \\ \hline g & 5 \\ \hline g & 7 $
$part 3u (76\frac{1}{2})$ $76\frac{1}{2}$ $3u = 76\frac{1}{2}$ $lu = 76\frac{1}{2} \cdot 3$ $= 25 \cdot 5$	
4u = 4x 25.5 = 102 Ans: 102	
PHPPS/P6/WA1/2024 1	

3

(a) The table shows the number of students in class 5A, 5B and 5C. Do not write in this space The number of students in 5D is not shown.

Class	Number of Students
5A	38
5B	40
5C	36
5D	?

Find the ratio of the number of students in 5A to 5B to 5C. Give your answer in the simplest form.

5 A	58	50	
38	40	36	1
19	20	18	J ÷ 2

5A : 5B: 5C Ans (a): (9 : 20 : 18

(b) The ratio of the number of students in 5C to 5D is 6 : 7.Find the number of students in 5D.

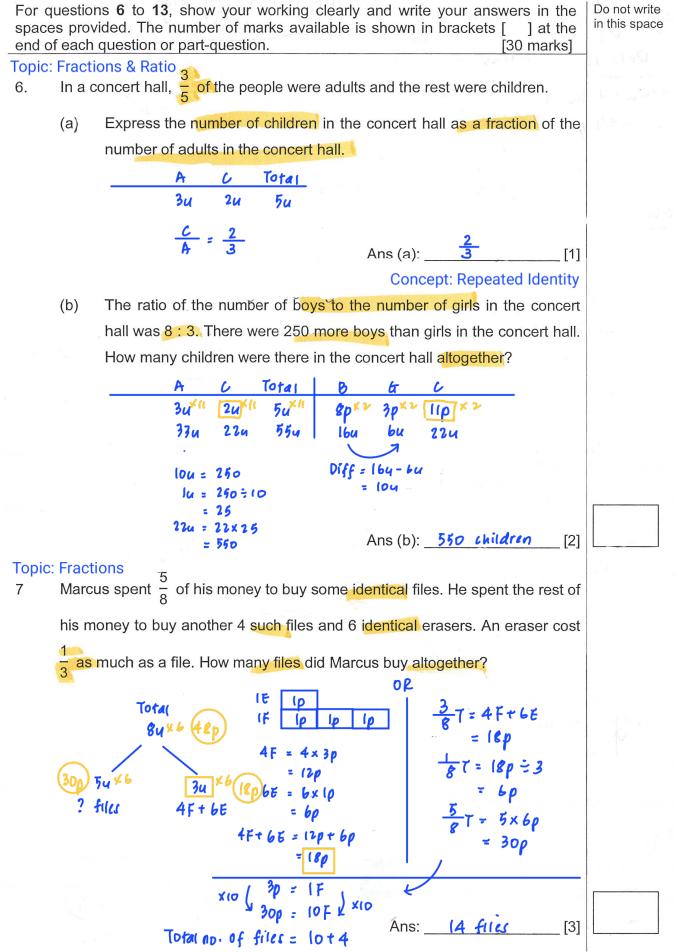
	5 A	58	50	50
-	38	40	36	
	194	20u	18 U	
			6p×3	7р⊀3
	1 9 u	20u	18u (36j	214
			(8u =	36
			lu =	36 - 18
			z	2
			21u =	21 x 2
				42

PHPPS/P6/WA1/2024

Ans (b): <u>42 Studen F.</u>

Topic: Algebra Do not write 4. (a) Simplify 10w + 7 - 3w - 5in this space 10W + 7 - 3W - 5= 1w+2Ans (a): 1w + 2 Find the value of $\frac{12q+6}{4}$ when q=8. (b) $\frac{12q+6}{4} = \frac{(12\times 8)+6}{4}$ $= \frac{46+6}{4}$ $= \frac{102}{4}$ = 25.5 or 252 Ans (b): 25.5 or 252 **Topic: Ratio** Concept: Grouping & Sets A pattern is formed using the letters H, P and S. The first 15 letters are as 5. shown. РНРРЅРНРРЅРНРРЅ... ^{4st} 15th Find the ratio of the number of 'P's to the number of 'H's in the (a) 1st 15 letters. <u>рн</u> 933 3:(:) ₽:н Ans (a): 3: ((b) How many 'P's are there in the 1st 100 letters? No. of letters in 1 group = 5 Ho of gloups of 5 in the firit 100 letters = 100 = 5 = 20 No. of 'P's in the let 100 letters = 20x 3 = 60 Ans (b): _____60

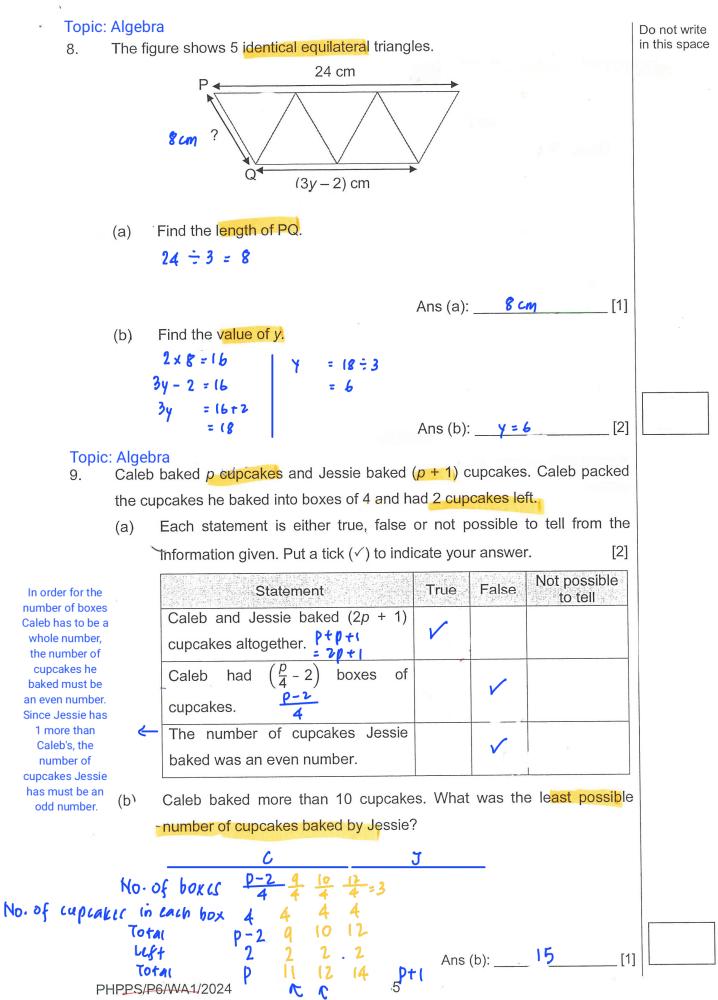
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4

= 14



not possible as no of boxes is not a whole number

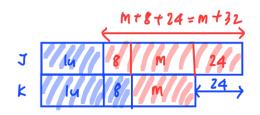
Topic: Algebra & Ratio

Topic: Algebra & Ratio

Do not write in this space

10 Joshua and Kaelyn have some red beads and blue beads. Kaelyn has 24 fewer beads than Joshua in total. Kaelyn has 8 more blue beads than Joshua.

(a) Kaelyn has *m* red beads. Find the number of red beads Joshua has in terms of *m*.



Ans (a): (m+32) red beads[2]

(b) The ratio of the number of red beads Joshua has to the number of red beads Kaelyn has is 7 : 5. How many red beads does Kaelyn have?

Ho. of	J	K	Piff
	٦p	5p	2p
			2p = 24t8 = 32
			(p = 32÷2 = 16
			5p = 5x (6 = 80

Ans: (b) 80 red beads

[2]

Concept: Unchanged Total Topic: Fractions & Ratio Do not write in this space Wendy had $\frac{3}{7}$ as much money as Zane at first. After Zane gave Wendy \$75, 11. they both had the same amount of money. How much money did Wendy have in the end? (a) W Z Total 54 74 Before 124 - 75 Change +75 After 124 64 64 1u = 75Wrend = 6 u = 6x 75 = 450 Ans (a): \$450 [2] **Concept: Unchanged Item** Zane then donated some money to a charity. The ratio of the amount (b) of money Wendy had to the amount of money Zane had now became 3: 1. How much money did Zane donate to the charity? W Z Total 450 Before 450 - 7 Change After lp 30 (45D) Unchanged

Item 3p = 450 1p = 450 ÷ 3 = 150 Amount donated = 450-150 = 300

PHPPS/P6/WA1/2024

Ans (b): **\$300**

[2]

Topic: Fractions Concept: Remainder Concept Do not write Mabel had 12 kg of sugar. She gave away $\frac{2}{5}$ of it and used $\frac{4}{9}$ of the rest of in this space 12. the sugar to bake some cakes. Find the amount of sugar Mabel used to bake the cakes. (a) Total 15p = 1254 ×3(15 1p = 12÷15 = 0-8 $4p = 4 \times 0.8$ AWAY R 3.2 90 5p Used to uf+ Ans (a): ______ [2] bake cakes Mabel then packed the remaining amount of sugar into some bags, (b) each containing $\frac{7}{8}$ kg of sugar. (i) How many bags of sugar could she have at most? (ii) What was the mass of sugar left unpacked? Give your answer as a fraction in its simplest form. (a) Left = 5p(b) Mass of sugar packed = 5×0-8 $=4\times\frac{7}{8}$ = 32 $= 4 \div \frac{7}{8}$ No. of bags Mass of sugar left unpacked = 4× <u>8</u> = 4-32 = 44 Dr Mass of sugar left unpacked $=\frac{4}{7}\times\frac{7}{6}$ $=\frac{1}{2}$ Ans (b)(i): ____ (b)(ii): [3]

Concept: Repeated Identity

13. At a soccer match, tickets were sold in Category A, B and C.

Topic: Fractions

(a) The number of Category A tickets sold was $\frac{1}{3}$ of the total number of Category B and Category C tickets sold. The number of Category B tickets sold was $\frac{2}{3}$ of the total number of Category A and Category C tickets sold. What fraction of the total tickets sold were Category A tickets? Leave your answer in the simplest form.

A	Btc	Total	в	Atc	Total	
น ^{⊀ ธ} 5ัน	34 ^{×5} (5и	4u ^{×5} 20u	2p ^{×4} 8u	3p <mark>*4</mark> (24	5р <mark>*4</mark> 20и	
	J	ummai	ry .	6=	15u - Bu	$\frac{A}{Total} = \frac{5}{20}$
	A	6	C TO		74	
	би	8u	Tu 20		<u> </u>	[2]
					Concep	t: NET Table

(b) The table shows the prices of tickets for each category.

	Category	Price per ticket
	A	\$28
-	В	\$18
	С	\$12

The total amount collected from the ticket sale was \$14 720. How many Category C tickets were sold?

$$\frac{A}{b} \frac{b}{c} \frac{c}{7} \frac{c}{0} \frac{t}{1} \frac{t}$$

[3]

--- End of Paper

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2024 P6 WA1 MATH RAFFLES GIRLS' PRIMARY SCHOOL

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DETAILED SOLUTIONS



RAFFLES GIRLS' PRIMARY SCHOOL WEIGHTED ASSESSMENT 1 2024 MATHEMATICS PRIMARY 6

Total Score (Out of 30 marks)	
Date: 27 February 2024	Duration: 50 minutes
Form Class: P6	Math Teacher:
Name:	()

Parent's Signature

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INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer **ALL** questions and show all working clearly.
- 4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 1 mark each and Questions 6 to 11 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. [17 marks]



1. Write one million, forty thousand and twelve in numerals.

1000 000 40 000 12 1040 012

Ans: (0400(2 [1]

Topic: Whole Numbers

2. Use all the digits 7, 0, 8 and 5 to form the largest 4-digit odd number.

Ans: 8705 [1]

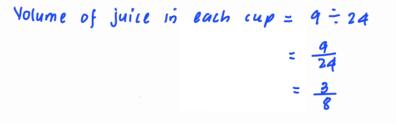
Topic: Fractions 3. How many sixths are there in $3\frac{5}{6}$?

= 23 6

Ans: 23 [1]

Topic: Fractions

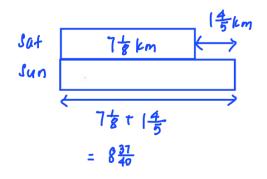
Rui Qi prepared 9 litres of fruit juice for a party. She poured the fruit juice equally into 4. 24 cups. How many litres of fruit juice were there in each cup? Give your answer as a fraction in the simplest form.



Ans: _____ ℓ [1]

Topic: Fractions

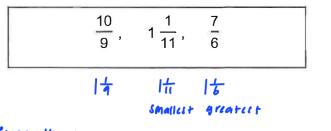
5. On Saturday, Jun Jie jogged for a distance of $7\frac{1}{8}$ km. He jogged $1\frac{4}{5}$ km shorter on Saturday than on Sunday. How far did he jog on Sunday? Give your answer as a mixed number.



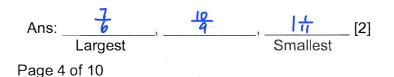


Topic: Fractions

6. Arrange these fractions from the largest to the smallest.

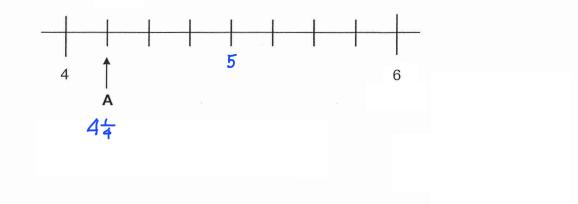


Since the numerators are the same, the greater the denominator, the smaller the fraction



Topic: Fractions

In the number line, what is the mixed number represented by A? 7. Give your answer in the simplest form.



44 [2] Ans:

Topic: Fractions

5

- Arjun paid \$432 for a dining table and 4 identical chairs. The price of each chair was 8.
 - $\frac{1}{5}$ of the price of the dining table. How much did Arjun pay for the dining table?

	DT	6	Total
No. of items	(4	5
Each (¢)	54	lu	
Total (\$)	би	4u	94 (432)
9u = 432			
lu = 432 ÷ 9			
= 48			
5u = 5x 48			
= 240			

Ans: \$ 240 [2]

Topic: Whole Numbers

Concept: Grouping & Sets

9. A departmental store gives a discount of \$4 for every \$25 spent. The jacket costs\$189 before discount. What is the price of the jacket after discount?



Ho. of groups of $$25 = 189 \div 25$ = 7R14 Discount = 7x4 = 28 Price of jacket after discount = 189 - 28= 16(

 Topic: Whole Numbers
 Ans: \$ _____[2]

 10. The first 15 numbers of a number pattern are given below.
 5, 2, 7, 0, 1
 5, 2, 7, 0, 1
 5, 2, 7, 0, 1

 10. 15th

What is the sum of the first 124 numbers?

```
Jum of 1 group of 5 numbers = 5+2+7+0+1

= 15

No. of groups of 5 numbers = 124 = 15

= 24R4

\downarrow \rightarrow Jum of next 4 numbers

= 5+2+7+0

= 14

Jum of first 124 numbers = (24 \times 15)t 14

= 374
```

Ans: <u>374</u> [2]

Topic: Fractions

: Fractions Shelly had some chocolate and vanilla cupcakes. She sold $\frac{2}{7}$ of the chocolate 11.

cupcakes and $\frac{3}{8}$ of the vanilla cupcakes. $\frac{4}{7}$ of the cupcakes sold were chocolate

cupcakes. What fraction of the cupcakes did she sell altogether?

ī.

٢	V	C	V	Total	
7u ^{× 2}	8 p	14p	8 p	22p	
- 2u × ~	- 3p	- 4p	- 3p	-76	
5u ^{x v}	۶p	IOP	Þρ	(5 p	
				Sold	$=\frac{7}{22}$
		- 2u × ~ - 3p			7u ^{×2} \$ρ 14p 8ρ 22p -2u ^{×ν} -3p -4p -3p -7p 5u ^{×ν} 5p 10p 5p 15p

722 [2] Ans:

For questions **12** to **14**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. [13 marks]

Topic: FractionsConcept: Before-Change-After12.Aminah, Belinda and Devi had a total of 1209 beads at first. They used the samenumber of beads to make necklaces. Aminah used $\frac{3}{5}$ of her beads, Belinda used $\frac{2}{3}$ of her beads and Devi used $\frac{1}{2}$ of her beads. How many beads did they usealtogether to make the necklaces?

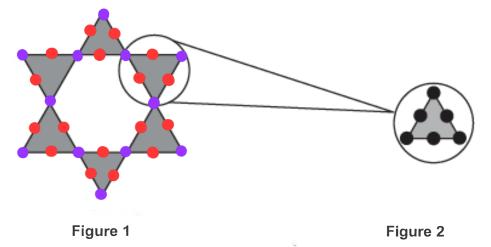
	A	В	D	A	B	D	Total
Before	54 ^{× 2}	3ρ ^{×3}	2y×6	104	94	124	314 (1209)
(hange	- 3u	- 2p	- ly ×6	- 6u	- 64	-64	-18u
After	242		(y*b		3 u	ьч	13u
3(u = 1)	209						
lu = 1	209 = 3	31					
=	39						
18u =	18x 39						
=	702						

Ans: <u>702</u> beads [3]

Topic: Whole Numbers

...

13. 6 identical grey equilateral triangles are used to form Figure 1. Dots are placed at an equal distance from each other along the sides of each triangle. The number of dots on each side of a grey triangle is the same and each corner has a dot on it.



(a) Figure 2 shows a section of Figure 1. Three dots are placed on each side of a grey triangle. How many dots will there be altogether in Figure 1?

No. of dots in $|\Delta = b$ Ho. of $\Delta s = b$ Total no. of dots less the overlapping dots $= (6\times6) - 6$ = 30

Ans: (a) _____ [2]

(b) When there are 102 dots in Figure 1, how many dots are there on each side of a grey triangle?

No. of dots less the corner dots = 102 - 6 - 6= 90No. of dots per triangle excluding corner dots = $90 \div 6$ = 15No. of dots per side excluding corner dots = $15 \div 3$ = 5No of dots per side including corner dots = $5 \div 2$ = 7Ans: (b) -7 dots [3]

Concept: Repeated Identity NET Table

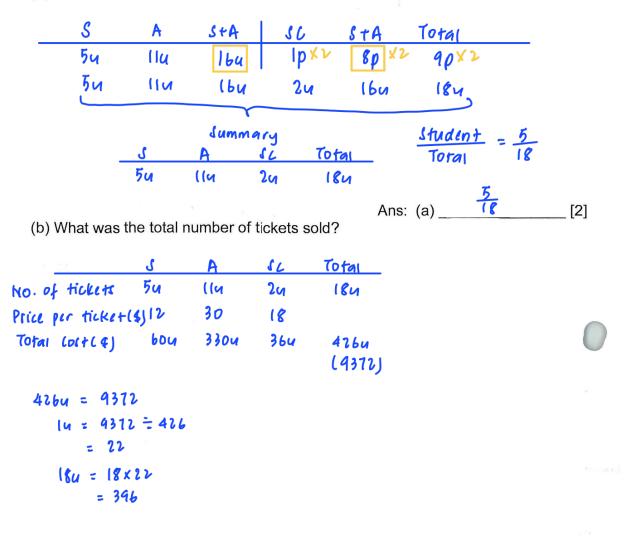
Topic: Fractions

14. The table shows the prices of tickets for an exhibition.

Туре	Price per ticket
Adult	\$30
Senior Citizen	\$18
Student	\$12

The number of student tickets sold was $\frac{5}{11}$ of the number of adult tickets sold. $\frac{1}{9}$ of the tickets sold were senior citizen tickets. A total of \$9372 was collected from the sale of tickets.

(a) What fraction of the tickets sold were student tickets?



Ans: (b) <u>396 tickets</u> [3]

END OF PAPER



2024 P6 WA1 MATH BUKIT TIMAH PRIMARY SCHOOL

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BUKIT TIMAH PRIMARY SCHOOL WEIGHTED ASSESSMENT 1 2024 PRIMARY 6

STANDARD MATHEMATICS PAPER 1: BOOKLET A

Name : _____()

Class : Pri. 6 _____

Date : 23 FEBRUARY 2024

Parent's Signature : _____

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the blanks provided.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers on the Optical Answer Sheet (OAS) provided.
- 6. You are not allowed to use a calculator.

		Max Mark	Marks Obtained
Paper 1	Booklet A	20	
	Booklet B	25	
Total		45	

This question paper consists of 6 printed pages.

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 on the Optical Answer Sheet.

(20 marks)

Topic: Whole Numbers	63000	82	

Which of the following is sixty-three thousand and eighty-two in numerals? 1.

(1) 6 382

e,

1

- (2) 63 082
- (3) 63 820
- (4) 630 082

Topic: Whole Numbers

2. Find the value of
$$105 - (60 + 25) \div 5 + 8$$

		= 105- 85	- 5+8
		= 105 - 17	+ 8
(1)	12	= 88	+ 8
(2)	58	= 96	
(3)	80		
(4)	96		

Topic: Fractions

Find the value of $\frac{1}{4} + \frac{2}{3}$ $\frac{|x|^3}{4x_3} + \frac{2x_4}{3x_4}$ 3. $=\frac{3}{12}+\frac{8}{12}$ $=\frac{1}{12}$ 5 12 (1) 377 (2) 11 (3)24 11 12

Topic: Fractions

Express 7 $\frac{3}{50}$ as a decimal. 4.

(1)	7.06	7=
(2)	7.3	= 7-06
(3)	7.35	
(4)	7.6	

Topic: Ratio 5. 3 : 5 = 21 :

Find the missing number in the box.

		×7 (3:5) ×7
(1)	15	
(2)	23	
(3)	26	
(4)	35	

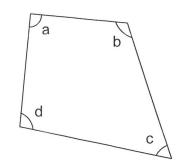
Topic: Percentage

The usual price of a bag was \$150. During a sale, Mdm Rina bought the bag for 6. \$120. What was the percentage discount for the bag?

Topic: Geometry (Angles)

1

7. Which angle is a right angle?





- (2) ∠b
- (3) ∠c
- (4) ∠d

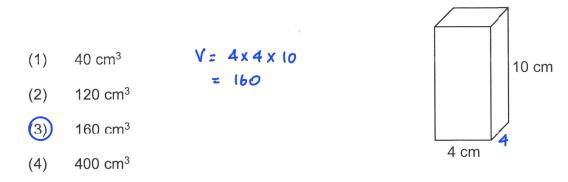
Topic: Measurement (Mass)

- 8. The mass of a ream of paper is about _____.
 - (1) 20 kg(2) 2 g
 - (3) 200 kg
 - (4) 2 000 g



Topic: Measurement (Volume)

A solid cuboid of height 10 cm has a square base of side 4 cm.
 What is its volume?



Topic: Statistics (Average)

10. The table below shows the time taken by four children to fold a paper star.

Name	Time Taken (s)			
Cai Ling	12.6			
Daphne	10.7			
Elson	11.6			
Farid	13.1			

Find the average time taken by the four children to fold a paper star.

(1)	11 s	Total = 12-6+10.7+11.6+13.1
(2)	12 s	= 48
(3)	46 s	Average time taken = $48 \div 4$ = 12
(4)	48 s	

Topic: Rate

Concept: Grouping & Sets

11. The table shows the entrance fees for an animal farm tour.

Quantity	Price		
First 10 tickets	\$8 each		
Every additional ticket	\$5		

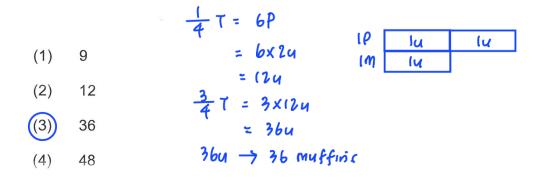
A group of people went for the animal farm tour and paid a total of \$160. How many tickets did the group buy?

(1)	16	Lost of first (0 tickets = 10×8 = 80
(2)	20	Lost of remaining tickets = 160-80
(3)	26	= 80
(4)	32	No-of additional tickets = 80 = 5
		= 16
		Total no. of tickets = 16+10
		= 26

Topic: Fractions

۱ ...

Jane bought 6 slices of pizza with $\frac{1}{4}$ of her money. A slice of pizza costs twice as 12. much as a muffin. How many muffins could Jane buy with her remaining money?



Topic: Ratio

Concept: Before-Change-After/Equal Scenario

13. Angie and Raj had equal lengths of rope. Angie used 90 cm of rope. Raj used 70 cm of rope. In the end, the ratio of the length of Angie's rope to the length of Raj's rope became 3 : 4. What was the length of Angie's rope at first?

			A	R	
(1)	20 cm	Before	3u+ 90	4u+70	3u+ 90 = 4u + 70
(2)	60 cm	Change	- 90 2	- 70 4	<u> </u>
(3)	150 cm	After	3u	4u	lu = 90-70 60+90
(4)	160 cm				= 20 = (50) 3u = 3x20
nic [.] Perce	entage				= 60

Topic: Percentage

14. The table below show the scores of 60 contestants who took part in a game.

Score	0 - 10	11 - 20	21 - 30	31 - 40	41 - 50
Number of contestants	7	8	15	12	8
				20	, ,

The top scoring 30% of the contestants could win prizes. What was the minimum score a contestant had to obtain to win a prize?

Total no. of contestants = 7+8+15+12+8 (1) 20 = 50 (2)21 30% × 50 = 15 (3)30 (4) 31

Topic: Whole Numbers

15. At a carnival, there was a total of 82 children queuing for popcorn.

There were at least 3 girls standing between any 2 boys. Find the greatest possible number of boys in the queue.

- End of Booklet A -

[Go on to Booklet B]

BUKIT TIMAH PRIMARY SCHOOL WEIGHTED ASSESSMENT 1 2024 PRIMARY 6

STANDARD MATHEMATICS PAPER 1: BOOKLET B

Name : _____()

Class : Pri. 6

Date : 23 FEBRUARY 2024

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the blanks provided.

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

3. Follow all instructions carefully.

4. Answer all questions.

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

6. You are not allowed to use a calculator.

		Marks Awarded
Paper 1 Booklet B	Short – answer Questions 16 - 30	
	Total (25 marks)	

This question paper consists of 8 printed pages.

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks) **Topic: Whole Numbers** 16. Use all the digits 0, 4, 5, 9 to form the number that is closest to 5 000. Ans: 5049 **Topic: Fractions** Find the value of $\frac{4}{7} \div \frac{10}{11}$ 17. Give your answer as a fraction in the simplest form. 4:10 = 4 × 40 $= \frac{44^{\div 2}}{70 \div 2}$ Ans: <u>35</u> $= \frac{22}{35}$ **Topic: Decimals** Find the value of 3.5 × 800 18.

3.5x 800

1

- = 3.5x 8x (00
- = 28 × 100
- = 2800

Ans: 2800



Topic: Ratio

19. There are 36 red bells, 16 blue bells and 28 yellow bells in the drawer.

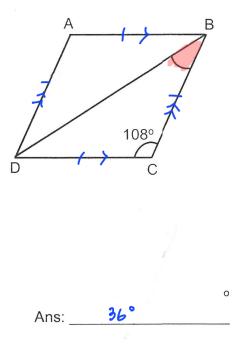
Express the ratio of the number of yellow bells to the number of red and blue bells in the simplest form.

$$\frac{Y}{=} \frac{P+B}{4 \int_{0}^{28} \frac{28}{7} \frac{36+(6=52)}{(3)} \frac{1+4}{2}$$

Ans: 7:13

Topic: Geometry (Angles) 20. In the figure, ABCD is a rhombus. Find \angle DBC.

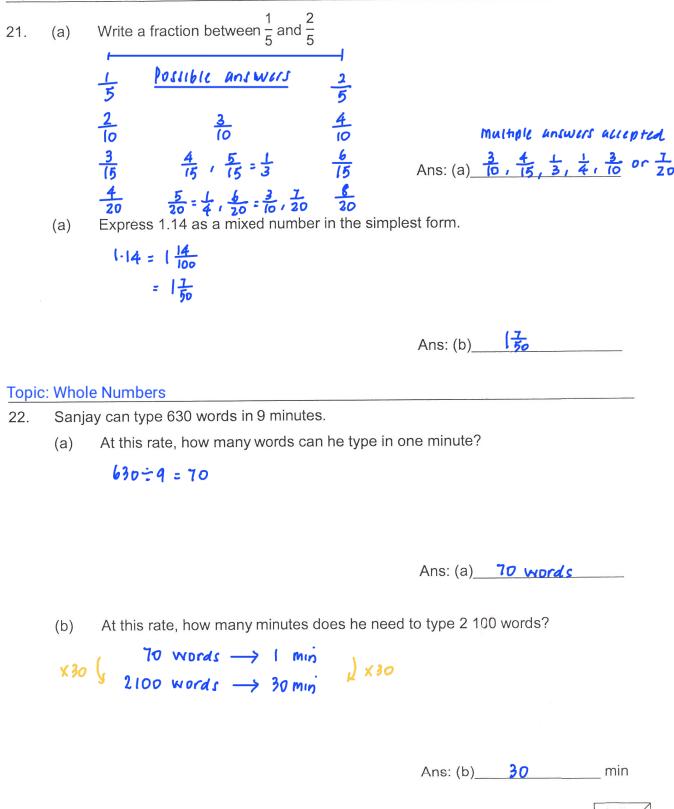
> $L PBC = (180^{\circ} - 108^{\circ}) \stackrel{-}{=} 2$ = 36°





Questions **21** to **30** 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. (20 marks)

Topic: Fractions





Concept: Before-Change-After23.Mr Lim had $\frac{4}{5}$ as many chickens as Mr Koh. Mr Koh gave $\frac{1}{2}$ of his chickens to MrLim. What is the ratio of the number of chickens Mr Kohhad to the number ofchickens Mr Lim had in the end? $\frac{1\times5}{2\times5}$ $\frac{1}{5}$ $\frac{5}{10}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{5}{10}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{5}{10}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{5}{10}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{5}{10}$ $\frac{1}{5}$ <t

K : L Ans: _____5 : (3

Topic: Whole Numbers & Statistics(Average)

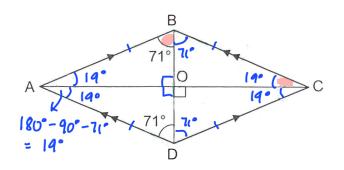
24. The average height of Elyse, Fatimah and Rajoo is 165 cm.
 Elyse and Fatimah are of the same height. Rajoo is 15 cm shorter than Fatimah.
 Find Rajoo's height.

Total height = 3 x 165 = 495 E U 15 F เน R 14 34 + 15+15 = 30 3u t 495-30 30 - 465 = 465 = 3 lu = 155

Ans: 155 cm



25. In the quadrilateral ABCD, AOC and BOD are straight lines.



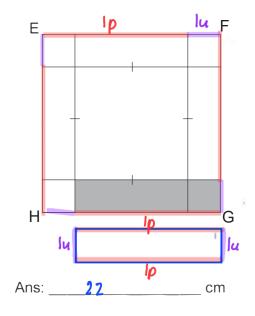
Each of the statements below is either true, false or not possible to tell based on the information given. For each statement, put a tick (\checkmark) to indicate your answer.

Statement	True	False	Not possible to tell
∠OCD = ∠BAD		V	
∠BCO + ∠ABO = 180° [9° + 7(° = 90°		V	
ABCD is a rhombus.	V		

```
Since LADD = LADB = 71^{\circ}, \Delta ABD is an isosceles \Delta.
```

LOCO = LDAO = (4° ()CO = LOAO = (4° ()CO - A BAC and A DAC Topic: Measurement (Perimeter) 26. Figure EFGH is a square. It is made up of a small square and 4 identical rectangles. The perimeter of Figure EFGH is 44 cm. Find the perimeter of the shaded rectangle.

```
lu + lp = 44 \div 4
= 11
Perimeter of Shaded rectangle
= 2u+2p
= 2\times11
= 22
```



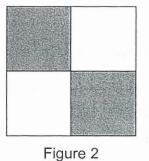


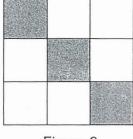
Topic: Percentage

Study the pattern and find the percentage of shaded parts in Figure 50. 27.



Figure 1





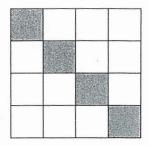
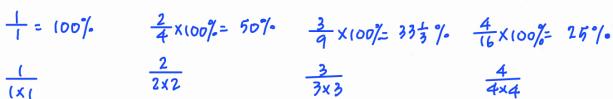


Figure 3

Figure 4

((x(

 $\frac{2}{2x2}$



 $\frac{4}{4\times4}$

Figure 50 = $\frac{50}{50\times50} \times 100\%$. $=\frac{1}{50} \times 100\%$ = 2%

Ans: 2 %

2

Topic: Fractions

Concept: Repeated Identity

28. John has two baskets P and Q.

The number of fruits in Basket P is twice the number of fruits in Basket Q.

 $\frac{1}{5}$ of the fruits in Basket P are apples and $\frac{1}{3}$ of the fruits in Basket Q are apples.

What fraction of the fruits that John has are apples? Express your answer in the simplest form.

A Other	s Total	A	Q Others	Total	A	Tota(Others	Tota(
lu ^{×3} 4ū [×] 3u ^{× 2} 12u bu 24	×2 154 ×2	(р ⊀5 รีน	2р×5 10и	3р×5 154	llu	34u	454
$\frac{A}{Total} = \frac{11}{45}$	5						
Topi <u>c: Ratio & Fractio</u>	กร	Ans: 45 Concept: Unchanged Item					

29. The ratio of the number of children to the number of adults at a party was 9 : 4.

 $\frac{3}{4}$ $\frac{1}{3}$ of the children left the party and there were 80 remaining people at the party.

How many adults were at the party?

	٢	Α	Total	
Before	94	44	134	
Change	- 34			
After	6 u	4u	(ou [80)	
(Du :	80			
lu =	80 = 10			
÷	8			
44 =	4x 8			
=	32			

Ans: 32 aduits



Topic: Measurement (Area)

30. In the figure, ABCD is a rectangle. The length of CE is twice the length of DE.
 The area of the shaded parts is 120 cm². Find the area of triangle DEF.

$$3u = 18$$

$$1u = 18 = 3$$

$$z = 6$$

$$2u = 2 \times 6$$

$$= 12$$

$$W + Y = \frac{1}{2} \times 18 \times 12$$

$$= 108$$

$$W + V = \frac{1}{2} \times 6 \times 12$$

$$= 36$$

$$2W + V + Y = 108 + 36$$

$$= 144$$

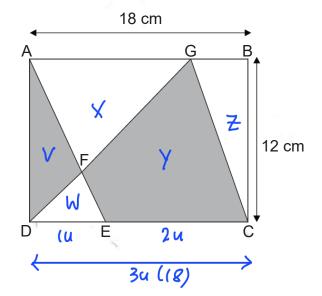
$$V + Y = 120$$

$$2W = 144 - 120$$

$$= 24$$

$$W = 24 = 2$$

$$= 12$$



Ans: _____ cm²

– End of Paper 1 –

Page 8 of 8