

### SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2022

### **PRIMARY 5**

### **MATHEMATICS**

## PAPER 1 (BOOKLET A)

Total Time for Booklets A and B: 1 h

Nan	ne :( ) 31 Oc	tober 2022
Cla	ss: Primary 5 SY / C / G / SE / P	
Mat	nematics Teachers	
Mrs	El Leen Lau / Mrs Eng Ke Ying / Ms Goh Al Ling / Mrs Kristene Ong / Ms Wo	ong See Wan
INS	TRUCTIONS TO CANDIDATES	
1.	Do not open this booklet until you are told to do so.	
2.	Follow all instructions carefully.	
3.	Answer all questions.	
4.	Shade your answers in the Optical Answer Sheet (OAS) provided.	
5.	You are not allowed to use a calculator.	

This booklet consists of  $\underline{5}$  printed pages and  $\underline{2}$  blank pages

#### **Booklet A**

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) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1. Round off 42 808 to the nearest hundred.
  - (1) 42 000
  - (2) 42 800
  - (3) 42 900
  - (4) 43 000
- 2. What is the value of 20 thousands, 12 hundreds and 5 tens?
  - (1) 320 050
  - (2) 210 205
  - (3) 32 050
  - (4) 21 250
- 3. Express  $3\frac{3}{4}$  as a percentage.
  - (1) 300.34%
  - (2) 300.75%
  - (3) 334%
  - (4) 375%
- 4. There are 40 students in a class. 16 students wear glasses. What is the ratio of students who do not wear glasses to the total number of students?
  - (1) 2:3
  - (2) 2:5
  - (3) 3:5
  - (4) 3:10

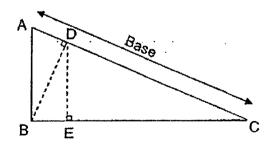
5. Arrange the following from the largest to the smallest.

2.5	3 5	3 2
į		-

Largest Smallest

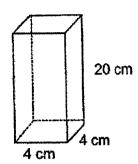
(1) 2.5 ,  $\frac{3}{5}$  ,  $\frac{3}{2}$ (2) 2.5 ,  $\frac{3}{2}$  ,  $\frac{3}{5}$ (3)  $\frac{3}{2}$  , 2.5 ,  $\frac{3}{5}$ (4)  $\frac{3}{5}$  ,  $\frac{3}{2}$  , 2.5

- 6. 200 bags cost \$7040. What is the cost of 1 bag?
  - (1) \$3.52
  - (2) \$7.40
  - (3) \$35.20
  - (4) \$70.40
- 7. Identify the height of Triangle ABC given that the base is AC.
  - (1) AB
  - (2) BC
  - (3) BD
  - (4) DE



### 8. What is the volume of the cuboid?

- (1) 80 cm<sup>3</sup>
- (2) 160 cm<sup>3</sup>
- (3) 320 cm<sup>3</sup>
- (4) 400 cm<sup>3</sup>



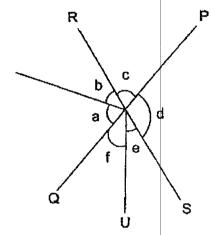
## 9. PQ and RS are straight lines. Which of the following is false?

(1) 
$$\angle c = \angle e + \angle f$$

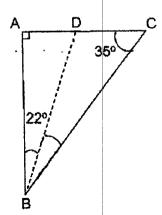
(2) 
$$\angle a + \angle b = \angle d + \angle e$$

(3) 
$$\angle a + \angle b + \angle c = 180^{\circ}$$

(4) 
$$\angle c + \angle d = 180^{\circ}$$



- 10. Figure ABC is a triangle. ∠ABD is 22° and ∠ACB is 35°.
   Find ∠DBC.
  - (1) 330
  - $(2) 55^{\circ}$
  - (3) 57°
  - (4) 68°



- 11. Peter made 12 bracelets in the morning and 24 bracelets in the afternoon. He sold all the bracelets at 2 for \$12. Which number sentence represents the total amount of money collected by Peter?
  - (1)  $12 + 24 \div 12 \times 2$
  - (2)  $(12 + 24) \div 2 \times 12$
  - (3) 12 + 24 + 2 x 12
  - (4)  $(12 + 24) \times 2 + 12$
- 12. A pattern is formed using the digits 1, 2 and 0. The first 17 digits are shown below. What is the sum of the first 35 digits?

1	2	Ö	0	1	1	1	2	0	0	1	1	1	2	0	0	1
1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		n drif (il rideature		<del></del>				, n- <del></del>			*		***	

- (1) 25
- (2) 29
- (3) 35
- (4) 39
- 13. A pencil is 5.4 cm long. A pen is 3 times as long as the pencil. What is the total length of the pen and pencil?
  - (1) 15.12 cm
  - (2) 16.2 cm
  - (3) 20.16 cm
  - (4) 21.6 cm

- 14. There are 42 cars and motorcycles in a carpark. Which of the following is <u>not</u> a possible ratio of the number of cars to the number of motorcycles in the carpark?
  - (1) 6:7
  - (2) 5:2
  - (3) 3:4
  - (4) 3:11
  - 15. A salesman earns \$0.50 for every 7 pens sold. He earns an extra \$1 for every 20 pens sold. How much will he earn if he sold 142 pens?
    - (1) \$7.00
    - (2) \$8.00
    - (3) \$10.00
    - (4) \$17.00

End of Booklet A



3. Answer all questions.

4. You are not allowed to use a calculator.

#### SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2022

#### **PRIMARY 5**

#### **MATHEMATICS**

### PAPER 1 (BOOKLET B)

Total Time for Booklets A and B: 1 h

Name :	(	}	31 October 2022
Class : Primary 5 SY / C	/G/SE/P		
Mathematics Teachers			
Mrs El Leen Lau / Mrs Eng	Ke Ying / Ms Goh Al Lin	ng / Mrs Kris	stene Ong / Ms Wong See Wan
INSTRUCTIONS TO CAL	NDIDATES	egynynga y pygyyyaataluuydagdd <del>a</del>	
1. Do not open this book	let until you are told t	o do so.	
2. Follow all instructions	carefully.		•

	Max Mark	Marks a	tained
Booklet B	25		

This booklet consists of 7 printed pages and 2 blank pages.

More papers available at www.sgexams.com

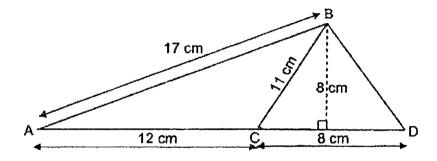
Booki Quest For qu	let B tions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. uestions which require units, give your answers in the units stated. (5 marks)	Do not write in this column
16.	Express 1.05 as a mixed number in its simplest form.	
	Ans:	
17.	Use all the digits to form a number closest to 90 000.	
	7 8 9 2 1	
	Ans	
18.	5 boys shared 6 pizzas. What fraction of the pizzas did each boy get?	
	Ans:	3

19. Mr Tan was given 124 sweets. He packed all of them into bags of 8 with some left over. How many sweets were not packed into the bags?

Do not write in this column

Ans:

20. The diagram below is not drawn to scale. Find the area of triangle ABC.



Ans: \_\_\_\_\_cm²

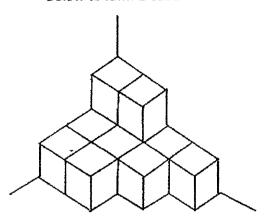
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answ	tions 21 to 30 carry 2 marks eac ers in the spaces provided. For c ers in the units stated.	h. Show your working clearly and write questions which require units, give your (20 m	<u>l</u>
21a.	Convert to grams.	i :	
	3.085 kg =	g	
		Ans:	9
21b.	Convert to kilometres.		
	5020 m =	_ km	
		Ans:	km
22.	Find the perimeter of square in its simplest form.	below. Give your answer as a mixed nu	ımber
	4 <sup>1</sup> / <sub>8</sub> cm		
	-	Ans:	cm 4

23	. A tin of milk powder weighs 2.5 kg. Mrs Tan bought 10 tins of milk powder and Mrs Farhan bought 20 tins of milk powder. What is the total mass of the tins of milk bought by Mrs Tan and Mrs Fahan?	Do not write in this column
	Ans:kg  A basket contains red, blue and yellow balls. The ratio of the number of red balls to the total number of balls is 2 : 5. The ratio of the number of blue balls to the number of yellow balls is 1 : 5. What is the ratio of the number of red	
	balls to the number of blue balls?	
	Ans:	4

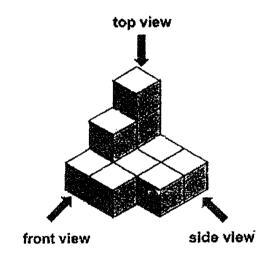
	e three sides of a triangle are in the ratio 2 : 3 : 4. The perimeter of tangle is 135 cm. What is the length of the shortest side of the triangle	1	Do not write in this column
26.	Ans:60 pupils took part in a Math Olympiad Competition. 24 of them wo gold award. What percentage of the students won the gold award?		
	Ans:	<u></u> %	4

27. What is the least number of unit cubes that must be added to the figure below to form a cube?

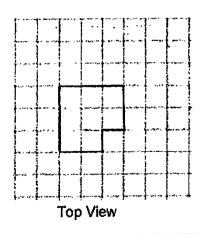


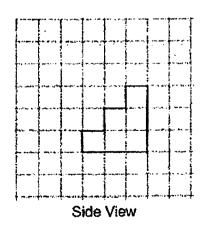
Ans:

28. Oliver stacked 11 unit cubes to form the solid figure below.



Draw the top view and the side view of the solid on the grids below.

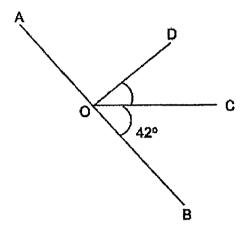




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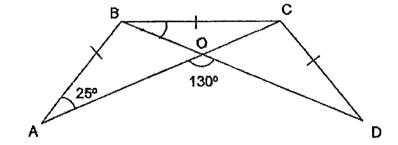
29. In the figure, not drawn to scale, AOB is a straight line. ∠AOD is 2 times of ∠DOC. Find ∠DOC.

Do not write in this column



4		
Ans:		٩
ruio.		

30. In the figure below, ABC and BCD are two identical triangles. Given that AB = BC = CD, find  $\angle OBC$ .



Ans: \_\_\_\_\_o

4

End of Booklet B

Do not write in this column



### SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2022

#### **PRIMARY 5**

#### **MATHEMATICS**

#### PAPER 2

Total Time for Booklets A and B: 1 h 30 min

Name :	_(	)	31 Oc	tober 2022
Class: Primary 5 SY / C / G / SE / P				
Mathematics Teachers				
Mrs El Leen Lau / Mrs Eng Ke Ying / Ms Goh	Ai Ling	/ Mrs Kristene Ong	Ms W	ong See Wan
INSTRUCTIONS TO CANDIDATES				
5. Do not open this booklet until you are	told to	do so.		
6. Follow all instructions carefully.				
7. Answer all questions.				

* *	-	Max Mark	Marks attained
Paper 1	Booklet A	20	
	Booklet B	25	
Paper 2		55	
Total Marks		100	

8. You are allowed to use a calculator.

Pa	rent's Signature

This booklet consists of 13 printed pages and 2 blank pages.

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

Do not write in this column

1. What is the missing number in the equation below?

$$+ 18 \times 5 + 3 - 2 = 32$$

Ans:

2. Kelly has a ribbon of length  $\frac{5}{6}$  m. She used  $\frac{1}{4}$  m to make a bow and  $\frac{1}{2}$  of it to wrap a present. How much ribbon was left?

Ans: \_\_\_\_\_\_ m

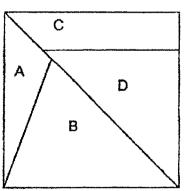
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3.	Mrs Jacobs is now 38 years old. In 4 years' time, she will be 6 times as old as
	her son. How old is her son now?

Do not write in this column

Ans: _	
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4. The diagram below shows a square. The ratio of area A to area B is 2 : 5.
The ratio of area C to area B is 3 : 5.
Find the ratio of area A to area D. (Give your answer in the simplest form.)

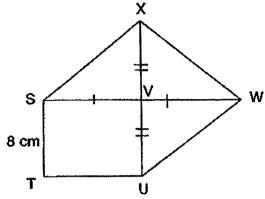


Ans:
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/\_

The perimeter of rectangle STUV is 36 cm. XVU and SVW are straight lines.
 Line ST is 8 cm. Find the area of triangle SWX.

Do not write in this column



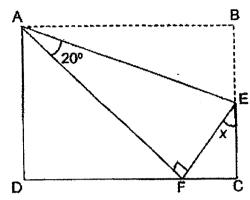
Ans: cm²

/2

For questions 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)		Do not write is this column
6,	Mr Ishak paid a total of \$447.60 for 3 tables and 9 chairs. Each chair cost \$15.20 less than a table. Find the cost of a chair.	
		erdelike kontrol er
	Ans: \$ [3]	
7.	Ronny had some money. He spent $\frac{1}{5}$ of it on a watch and $\frac{3}{8}$ of the remainder on some books. He had \$105 left. How much money did he have at first?	
	Ans: [3]	6

8. The figure below shows a rectangle ABCD. It is folded along line AE as shown below. Given that ∠EAF is 20°, find ∠x.

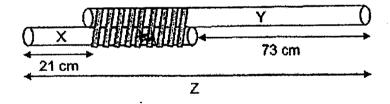
De not write in this column



Ans:	· ·	[3]
Allo.		[0]

9. Two rods, X and Y were tied to form a longer rod, Z as shown below. The ratio of the length of Rod X to the length of Rod Y is 3:5.

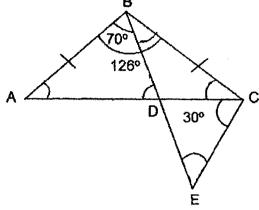
Find the length of Rod Z.



Ans:	 [3]

10. In the figure, not drawn to scale, ABC is an isosceles triangle.
BDE is a straight line. ∠ABC is 126°, ∠ABD is 70° and ∠DCE is 30°
(a) Find ∠BCD.

Do not write in this column



Ans: (a) \_\_\_\_\_[1]

(b) Find ∠CED.

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

3

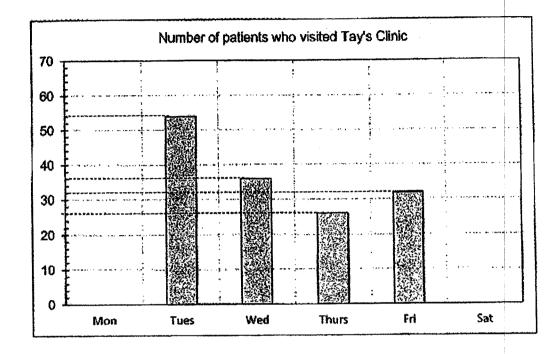
11. Anthony has 70 more toy cars than Bala.  $\frac{1}{4}$  of Anthony's toy cars is 25 more than  $\frac{1}{5}$  of Bala's toy cars. How many toy cars do they have altogether?

Do not write in this column

Ans: [4

12.	The usual price of a dress is \$118.75. Mrs Tan was given a 20% discount.  (a) How much is the discount?	Do not write in this column
	Ans: (a)[1]  (b) Mrs Tan paid an additional 7% of GST on the discounted price of the	
	dress. How much did she pay for the dress including the GST?	
	(b)[3]	4

13. The graph shows the number of patients visiting Tay's clinic on a certain week. The clinic was closed on Monday. Do not write in this column



(a) What was the total number of patients from Tuesday to Friday?

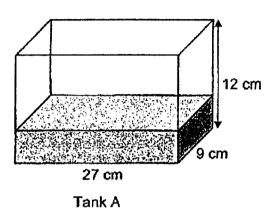
Ans: \_\_\_\_\_[2]

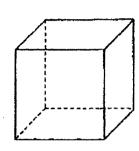
(b) Given that the average number of patients from Monday to Saturday is 34, how many patients were there on Saturday?

Ans: \_\_\_\_\_[2]

14. Tank A is 27 cm by 9 cm by 12 cm and it is <sup>1</sup>/<sub>4</sub> - filled with water. All the water from Tank A is poured into container B and it filled container B to the brim. Given that all sides of container B are equal, what is the base area of container B?

Do not write in this column





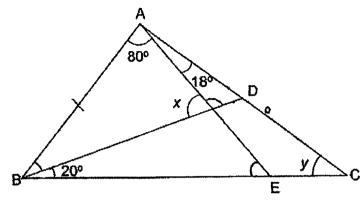
Container B

Ans: \_\_\_\_\_[4]



15. In the figure, not drawn to scale, AB = AE and BD and BEC are straight lines.

Do not write in this column



(a) Find  $\angle x$ .

Ans: \_\_\_\_\_[2

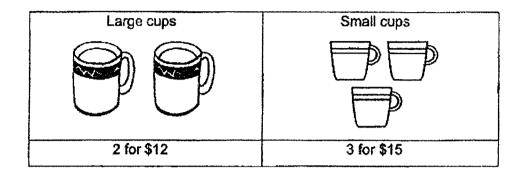
(b) Find  $\angle y$ .

Ans: \_\_\_\_\_[2

4

Janice and Kelly bought some cups from a stall. The cups are sold in sets of2 and 3 cups as shown below.

Do not write in this column



(a) Janice bought an equal number of large and small cups. She spent \$24 more on large cups than small cups. How many cups did she buy altogether?

Ans: (a){{3}}
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(b) Kelly bought 6 large cups and had \$50 left. She bought as many small cups as she could with the remaining money. What fraction of the cups she bought were small cups?

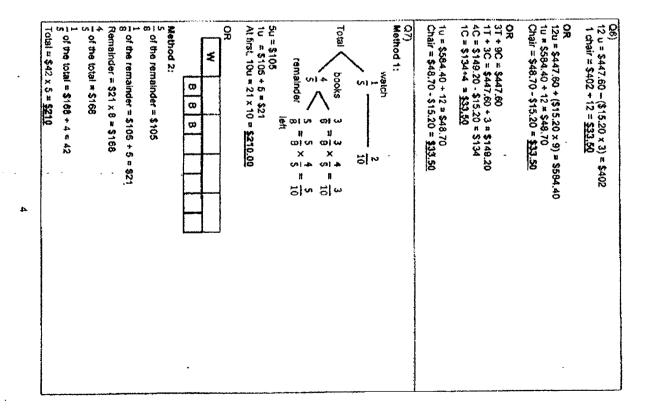
Ans: (b)[2	)
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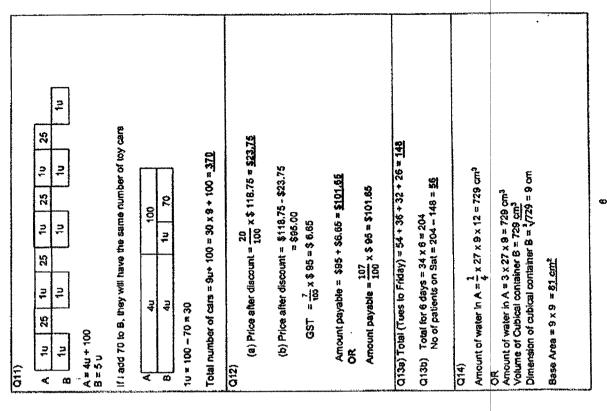
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		Do not write in
17.	Tory spent $\frac{1}{4}$ of her money on 5 books and 15 sheets of stickers. The cost of	this column
	each book is 9 times the cost of each sheet of sticker. She bought more	
	books with the remaining amount of money.	
	(a) How many books did she buy with the remaining amount of money?	
	Ans (a):[2]	
	(b) Given that Tory spent \$231 more on all the books than all the stickers.	
	What is the cost of 1 sheet of sticker?	
		-
	Ans (b):[3	5
	End of Paper 2	
	~ Please check your work thoroughly. ~	

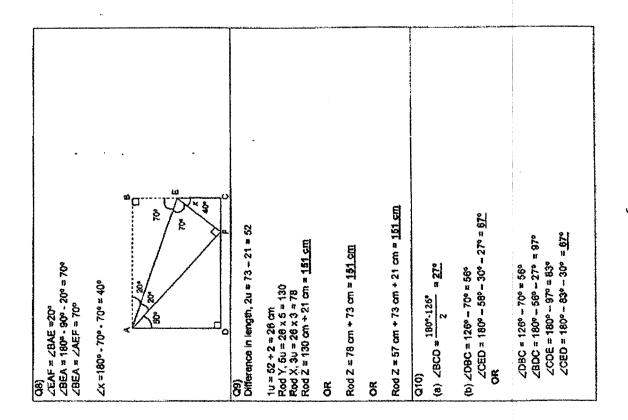
Do not write in this column

ω	Area of Triangle SWX = $\frac{1}{2}$ x 20 x 8 = $\frac{80 \text{ cm}^2}{1}$	Q5) $\frac{36 \cdot (8 \times 2)}{2} = 10 \text{ cm}$	A:D 2:4 1:2	A:8 C:8 2:5 3:5 Area D = 7u = 3u = 4u	Q3) Mrs Jacobs (4 yrs time) ————————————————————————————————————	Method 2 Wrap present = $\frac{1}{2} \times \frac{5}{6} = \frac{5}{12}$ Total used = $\frac{1}{4} + \frac{5}{12} = \frac{2}{3}$ Ribbon left = $\frac{5}{6} - \frac{2}{3} = \frac{1}{6}$ m	(Q2) Method 1  Left after making bow = $\frac{5}{6} - \frac{1}{4} = \frac{7}{12}$ Wrap present = $\frac{1}{2} \times \frac{5}{6} = \frac{5}{12}$ Ribbon left = $\frac{7}{12} - \frac{5}{12} = \frac{1}{6}$ m	lissing	= +30-2=32 = +28=32	+ 90 + 3 - 2 = 32	Q1) + 18 x 5 + 3 - 2 = 32	Paper 2 : 60 marks Mark Schame
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\* #\*



(b)
No of small cups = \$50 + \$15 = 3 R \$5
Total number of cups = 3 x 3 + 6 = 15
Fraction of cups that are small = 

15 OR
Equal number of cups = 6 small and 6 larger
1 set (difference) = 6 large cups - 6 small cups
1 set (difference) = 536 - \$30
2 \$6 (e) (g) Can buy --- 6 books x 3 = 18 books 6 stickers x 3 = 18 stickers Since - of maney spent on books, Tof money = 5 x 9u + 15 x 1u = 45u + 15u = 60u Since 1 book a 9 u. No of books (from remaining money) = 180u + 9u = 20 books With 60u, one can buy --- 6 books + 6 stickers (a) 1 sheet of sticker = 1u OR Using Guess and Check  $24 \times 2 = 48$ OR using the following multiples with correct cost No of sets = \$24+\$6 = 4 Total number of cups = 4 x 12 = 48 No of sets = 524+51 = 24Total number of cups =  $24 \times 2 = 48$ i set (difference) # 1 large cup = 1 small cup # \$6 - \$5 # \$1 No of sets # \$24+\$1 # 24 Large Cups Cost Small Cups of money spent on books # 60u x 3 # 180u of money = 5 x 9u + 15 x 1u = 45u + 15u = 60u

And 18 stickers = 2 books

No of books (from remaining money) = 18 books + 2 books = 20 books

(b)

Total units spent on books = 180u + 45u = 225u

Total units spent on stickers = 15u

Difference = 225u - 15u = 210u

210u = \$231

1 sheet of sticker, 1u = \$231 + 210 = \$1.10

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