

NANYANG PRIMARY SCHOOL

# PRELIMINARY EXAMINATION

2023

# **PRIMARY 6**

## MATHEMATICS PAPER 1 (BOOKLET A)

### Total Duration for Booklets A and B: 1 hour

)

Additional materials: Optical Answer Sheet (OAS)

### **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. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 5. The use of calculators is NOT allowed.

Name: \_\_\_\_\_ (

Class: Primary 6 ( )

Questions  $1 \ge 10$  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 case (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 Round 76 523 to the nearest hundred.
  - (1) 76 500
  - (2) 76 000
  - (3) 77 000
  - (4) 80 000
- 2 In 89.76, which digit is in the tenths place?
  - (1) 6
  - (2) 7
  - (3) 8
  - (4) 9

3 What is the length of the paper clip in the figure below?



- (1) 1.1 cm
- (2) 2.2 cm
- (3) 2.6 cm
- (4) 4.8 cm
- 4 Which two lines in the square grid below are parallel to each other?



- (1) AD and HE
- (2) AH and DE
- (3) BG and DE
- (4) BG and CF

5 In the figure below, WPRT is a square. QWU and SWV are straight lines.  $\angle QWP = 13^{\circ}$  and  $\angle SWT = 28^{\circ}$ . Find  $\angle UWV$ .



- (1) 48°
- (2) 49°
- (3) 50°
- (4) 51°

6 In the figure below, VWXY is a rhombus. XYZ is a straight line and  $\angle$ VWY = 36°. Find  $\angle$ VYZ.



- (1) 144°
- (2) 112°
- (3) 108°
- (4) 72°

7 The figure below shows a cuboid.



Which one of the following is not a net of the cuboid?









- 8 Kenneth had j pens at first. He gave away 9 pens and packed the remaining pens into 5 packets. There were 6 pens in each packet. How many pens did Kenneth have at first?
  - (1) 20
  - (2) 21
  - (3) 30
  - (4) 39

9 The pie chart shows the amount of money Jessica spent on the different items on her trip.



The amount of money Jessica spent on the different items on her trip is also represented by the bar graph below. The bar for the amount of money spent on shopping has not been drawn.



How much did Jessica spend on shopping?

- (1) \$1400
- (2) \$1600
- (3) \$1800
- (4) \$3200

- 10 The diagram shows the door of a classroom. Which of the following could be the height of the door?
  - (1) 0.2 m
  - (2) 2 m
  - (3) 2 cm



- (4) 2000 cm
- 11 Three points are drawn on a square grid below.

			N 1
	Y		l
Z		X	

Eve is standing within the grid. She stands at a location north-west of X and north of Y. In what direction is Z from Eve?

- (1) South-east
- (2) South-west
- (3) North-east
- (4) North-west

Andy had 1600 white marbles and some black marbles at first. After 12 buying 1200 red marbles,  $\frac{5}{9}$  of his marbles were black marbles and red marbles. What fraction of the marbles were red in the end?

(1) 
$$\frac{1}{3}$$
  
(2)  $\frac{3}{4}$   
(3)  $\frac{3}{7}$   
(4)  $\frac{2}{5}$ 

9

13 Beaker A and Beaker B contain some water as shown below. How many more litres of water are there in Beaker A than Beaker B?





**Beaker B** 

- (1) 210
- (2) 190
- (3) 0.21
- (4) 0.19

- 14 Mrs Raj baked some muffins.  $\frac{1}{4}$  of them were blueberry muffins,  $\frac{2}{5}$  of them were chocolate muffins and the rest were strawberry muffins. What was the ratio of the number of strawberry muffins to the number of blueberry muffins to the number of chocolate muffins?
  - (1) 1:2:7
  - (2) 2:5:3
  - (3) 4:5:20
  - (4) 7:5:8
- 15 Jun Xiang uses 4 letters K, L, M and N to form a pattern. The first 25 letters are shown below. What letter is in the 338<sup>th</sup> position?

KLMMKLNKLMMKLNKLMMKLNKLMM...... 1<sup>st</sup> 25<sup>th</sup>

- (1) N
- (2) M
- (3) L
- (4) K



#### **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 calculators is <u>NOT</u> allowed.

Name: \_\_\_\_\_ ( )

Class: Primary 6 ( )

<b>Booklet B</b>	t R	Booklet
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/ 25

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

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)

16 Jane had 32 stickers. She gave  $\frac{3}{8}$  of her stickers to her cousin. How many stickers did she have left?

			Ans:	
 	an a	 	 	 

17 Express 16 025 metres in kilometres.

Ans: \_\_\_\_\_ km

18 Shade the least number of squares to form a symmetric figure with line AB as the line of symmetry.



- Ans: \_\_\_\_\_ cm<sup>3</sup>
- 19 The solid below is made up of 1-cm cubes. Find the volume of the solid.

20 Govinder stacked 13 unit cubes and glued them together to form the solid below.



Draw the side view of the solid on the grid below.

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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)

21 List all the common factors of 12 and 42.

Ans:

- 22 Bala bought 3 pens and 2 files. The total cost of the 3 pens and 2 files was \$7.65.
  - (a) Bala gave the cashier \$50 to buy the 3 pens and 2 files. How much change did he receive?

Ans: \$\_\_\_\_\_

(b) Chandra bought 9 such pens and 6 such files. How much did he pay?

Ans:	\$
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23 Aminah arrived at a food centre at 17 05. She spent  $\frac{5}{12}$  h having dinner there. Then, she spent twice the amount of time travelling to a cinema. What time did she reach the cinema? Give your answer using the 24-hour clock.

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

24 Mr Tan sold 40 cars in 2021. In 2022, he sold 50 cars. What was the percentage increase in the number of cars he sold from 2021 to 2022?

Ans: %

25 Xihuan used a calculator to divide a number by 7. She made a mistake by pressing 4 instead of 7. She obtained the incorrect answer of 287. What should the correct answer be?

Ans:	
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26 In the figure below, ABCD is a square. BGD and AGC are straight lines. BF = FC = CE. What fraction of the figure is shaded?



Ans:

27 All has 5 l of apple juice. He pours all the juice into cups. The capacity of each cup is  $\frac{7}{10}$  l. What is the least number of cups he uses for all his juice?

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

28 In the figure below, EFG is an isosceles triangle. DEG is a straight line and EG = FG.  $\angle$ DEF = 111° and  $\angle$ HGE = 63°. Find  $\angle y$ .



Ans:

**29** In the figure below, ACDE is a parallelogram and BDE is a triangle.  $\angle CAE = 75^\circ$ ,  $\angle BDC = 18^\circ$  and BE = BD. Find  $\angle AEB$ .



Ans: \_\_\_\_\_°

30 Mrs Tan had 4y boxes of tarts. Each box contained 15 tarts. She sold 2 boxes of tarts. Given y = 8, how many tarts were left unsold?

Ans:

End of Paper



## PRELIMINARY EXAMINATION 2023

# **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)

1 A lamp is 2 kg heavier than a vase. The total mass of 5 such lamps is *k* kg. Express the mass of the vase in terms of *k*.

Ans: \_\_\_\_\_ kg

2 The table shows how much a worker is paid each day.

1 <sup>st</sup> hour	\$75
Every additional hour	\$40
For every 4 hours of completed we	ork, an additional \$10 will be paid.

Mr Morris was paid \$325 for a day's work. How many hours did he work?

Ans: \_\_\_\_\_\_ h

3 X, Y and Z are 2-digit numbers. The average of X, Y and Z is 56. X is  $\frac{2}{3}$  of Y. Find the smallest possible value of X.

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

4 What is the price of the handphone after adding 8% GST?



Ans: \$\_\_\_\_\_

5 In the figure below, ABCD is a square and CEFG is a rectangle.  $\angle$ GCD = 203°. Find  $\angle$ BCE.



Ans: \_\_\_\_\_\_°

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)



6 A parallelogram ABCD is drawn on a square grid inside a box.

- (a) By joining dots on the grid with straight lines, draw square ADEF. Square ADEF must not overlap with parallelogram ABCD. [1]
- (b) By joining dots on the grid with straight lines, draw trapezium CDGH such that CD is twice as long as GH, GH is parallel to CD and DG = GH. Trapezium CDGH must not overlap with parallelogram ABCD. [1]
- (c) Find the ratio of the area of parallelogram ABCD to the area of square ADEF to the area of trapezium CDGH. Express your answer in its simplest form.

Ans: (c) \_\_\_\_\_

7 At a bakery, Mrs Tan bought 9 chicken puffs and Mrs Lim bought 5 beef puffs. They spent the same amount of money buying these puffs. Each beef puff cost \$1.20 more than each chicken puff. How much money did Mrs Tan and Mrs Lim spend altogether?

Ans:

**8** Janet, Samuel and Farhana used the same number of ice-cream sticks to make some popsicles. Janet had  $\frac{3}{7}$  of her ice-cream sticks left. Samuel had  $\frac{1}{4}$  of his ice-cream sticks left. Farhana had  $\frac{7}{9}$  of her icecream sticks left. They had a total of 1265 ice-cream sticks left. How many ice-cream sticks did each of them use to make popsicles?

Ans: \_\_\_\_\_ (3)

**9** A group of 5 girls booked a computer for 2 hours. They took turns to work on the computer for their project. At any time, only 3 girls worked on the computer. On average, how long did each girl work on the computer? Give your answer in hours and minutes.

Ans: \_\_\_\_\_ [3]

10 At 08 00, Patrick and John travelled from Town A to Town B at constant speeds. They travelled along the same route. Patrick travelled at 25 km/h faster than John. When Patrick reached the mid-point between Town A and Town B, John was 30 km away from the mid-point. At what time did Patrick reach Town B?

Ans: \_\_\_\_\_ [3]

11 A 13-cm cubical container was filled with water to a height of 11 cm.



(a) Find the volume of water in the cubical container.

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

(b) Tank Y was filled with some water at first as shown below. All the water from the cubical container was poured into Tank Y. In the end, Tank Y was  $\frac{5}{7}$ -filled with water. Find the height of the water in Tank Y at first.





12 Shu Xin had a rectangular block measuring 32 cm by 12 cm by 24 cm. She painted all the faces of the block. Then, she cut the block into 2-cm cubes.



(a) How many 2-cm cubes did Shu Xin cut from the block?

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

(b) How many of these 2-cm cubes had none of the faces painted?

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

13 Some children sold cards for a fund-raising event. Each small card was sold at \$5 and each big card was sold at \$8. The table below shows the number of cards sold by three of the children.

Child	Number of cards sold		
CHINU	Small	Big	
Janice	12	7	
Deepa	7	9	
Zi Ying	6	10	

(a) Which of the three children in the table above collected the most money? What was the amount of money collected?

Ans: (a) Child: \_\_\_\_\_

Amount: \_\_\_\_\_ [2]

(b) Bradley sold as many cards as Deepa but collected \$15 less than her. How many small cards did Bradley sell?



- 14 In class 6T, when only one girl stands up and the rest of the children are sitting down, the number of boys sitting down is  $\frac{1}{2}$  the number of girls sitting down. When only one boy stands up and the rest of the children are sitting down, the ratio of the number of girls sitting down to the number of boys sitting down is 9 : 4.
  - (a) What is the total number of children in class 6T?

Ans: (a) [2]

(b) After an equal number of girls and boys left the class for competition, the ratio of the number of girls to the number of boys in the class became 9 : 2. Find the total number of children who left the class for competition.

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

**15** EFGH is a square. FG = MG and EK = JK. FGL, EMG, EKL and EHJ are straight lines.  $\angle$ FEL is twice of  $\angle$ FLE.



(a) Find  $\angle$  FMG.

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

(b) Find  $\angle$ GEL.

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

(c) Find  $\angle$ KJE.

Ans: (c) [1]

16 A company offered 150 laptops at a 20% discount during a 5-day sale. The line graph shows the number of laptops left unsold at the end of each day.



(a) On which day was the most number of laptops sold?

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

(b) What percentage of the laptops were sold on the first 2 days?

(b) \_\_\_\_\_ [1]

(c) During the sale, the discounted price of the laptop was \$1288. After the sale, the remaining laptops were sold at a discount of 50% instead of 20%. What was the total amount of money collected from selling all 150 laptops?

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

17 The figure below is made up of a rectangle ABCD and a semicircle. AEC is a straight line. The arc of the semicircle touches AB at point F. DC = 16 cm and AF = FB.



#### (Take $\pi = 3.14$ )

(a) Find the area of the semicircle.

Ans: (a) [2]

(b) Find the difference between Area X and Area Y.

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

End of Paper

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	Quastions 1 to 30 carry 1 mark each. Quastions 11 to 15 carry 2 marks each. For each quastion, four options are given. One of them is the connect numwer. Make your choice (1, 2, 3 or 4) and ahede your answer on the Optical Answer Sheet. (20 marks)			
NANYANG PRIMARY SCHOOL		······································		
PRELIMINARY EXAMINATION 2023	1 Round 78 523 to the ne	argant haurschreid.		
PRIMARY 6	(1) 75 500	76 523 2 76 500		
MATHEMATICS	(2) 78 000			
PAPER 1	(3) 77 000	(1)		
(BOOKLET A)	(4) 60 000	(1)		
Total Duration for Booklets A and B: 1 hour				
Additional materials: Optical Answer Sheet (OAS)				
INSTRUCTIONS TO PUPILS	2 in 89.76, which digit is in	the tenths place?		
Do not hum over this page until you are told to do so.     Follow all instructions carefully.	(1) 6			
3. Answer all questions. 4. Shade your answers in the Optical Answer Shoel (OAS) provided.	(2) 7			
5. The use of calculators is <u>NOT</u> allowed.	(3) \$	(2)		
	(4) 🛛			
Name:( )				

Class: Primary 6 (

)

3 What is the length of the paper clip in the figure below?



- (1) 1.1 cm
- (2) 2.2 an
- (3) 2.8 am
- (4) 4.8 am

4 Which two lines in the square grid below are parallel to each uties?



- (1) AD and HE
- (2) AH and DE

(3)

(4)

4.2 . 2.6 = 2. 2

(x)

8G and CF (4)

SG and DE

In the figure below, WPRT is a square. GWU and SWV are straight lines.  $\angle GWP \simeq 13^\circ$  and  $\angle SWT \simeq 28^\circ$ . Find  $\angle UWV.$ \$



(2)

(3)

(4)

()



(3)

.

(4) 72'

(2)

(3)

Which one of the Islawing is not a net of the cuboid?



The pie chart shows the am different issue on her trip. unt of money Jessice spont on the



and anount or money Jessics spent on the different items on her bip is sign represented by the bar graph below. The bar for the encount of money spent on shopping has not been drawn.



7

Kenneth had j pens at limit. He gave over 9 pens and pecked the remaining pens into 5 peckets. There were 6 pens in each pecket. How many pens did Kenneth have at first? .

(1)	20	5%6=30
(2)	21	30+9=39
(3)	30	
(4)	39	(4)

The diagram shows the door of a classroom. Which of the following could be the height of the door? 1e



Three points are drawn on a square grid bak 11



Eve is utending within the grid. She stands at a location north-west of  $\underline{X}$  and north of  $\underline{Y}$ . In what direction is Z from Eve?

- (1) South-east
- (2) South-wast **(1)**
- (3) North-cest
- (4) North-must

12 Andy hed 1800 while marking and some black muscles at limit. After buying 1200 rad marbles, 5 of his marbles were black marbles and red merbles. What function of the marbles were red in the end?

(1)

(2)

(3)

(4)

$$\frac{1}{3} \qquad \frac{9}{9} - \frac{5}{9} = \frac{4}{9} \rightarrow \omega_{h,He}$$

$$\frac{3}{4} \qquad \frac{4}{9} \rightarrow 1600$$

$$\frac{1}{9} \rightarrow 1600$$

$$\frac{1}{9} \rightarrow 1600 \neq 4$$

$$\frac{3}{7} \qquad = 400$$

$$\frac{9}{7} \rightarrow 400 \neq 9$$

$$= 3600 \rightarrow 100 \text{ m/m}$$
and
$$\frac{1300}{3600} = \frac{13}{34}$$

13 Baaker A and Stater 8 cont Beafus: A and Beafus & contain some water as shown below. How many more ligge of water are there in Beafur A then Beafur 8?



- 160 14
- (1) 210

.+

(2)	190	350-160 = 190
(3)	0.21	230- (00 × 140
(4)	0.19	1, Pi-0 = 1m 0Pl

(4)

20 \* 14 14 Mm Rat bak ud some multine. of them were blabers a of them were choosiste multing and the rest are strawberry multing. What was the ratio of the number of simucbarry multime to the number of blueberry multine to the number of choosiele multine?

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(1) 
$$1:2:7$$
  $1-\frac{1}{4}-\frac{3}{5}$   
(2)  $2:5:3$   $=\frac{30}{30}-\frac{5}{20}-\frac{9}{50}$   
(3)  $4:5:20$   $=\frac{1}{30}-\frac{3}{5}$  showbery  
(4)  $7:5:8$   $S:8-C$   
 $7:5:8$  (4)

15 Jus Xiang uses 4 laters K, K, M and N to form a pattern. -The first 25 fatters are about below. -What latter is in the 330<sup>th</sup> pattern?

(1) N 338 
$$\div$$
 7 = 48 R2  
(2) M  
(3) L  
(4) K (5)



23 Aminah antived at a food centre at 17 05. She spont  $\frac{5}{12}$  h having dinner there. Thick, she spart twice the amount of time travelling to a cinema. What time did she reach the cinema? Give your enswer using the 24-hour clock.

$$\frac{5}{12}h = \frac{25}{60}h$$

$$= 25 \text{ min}$$

$$25 \times 3 = 75$$

$$75 \text{ min} = 11 \text{ (5 min}$$

$$= \frac{15 \text{ min}}{15 \text{ min}}$$

$$= 11 \text{ os} \quad 12 \text{ os} \quad 12 \text{ os} \quad (200 \text{ (mu)})$$

$$Amr = \frac{18 20}{18 20}$$

Mr Ten exit 40 cars in 2021. In 2022, he sold 50 cars. What was the percentage increase in the number of cars he sold from 2021 to 2022? 24

1

Ans

25

\*

27 All two SL of apple julca. He pours all the julca into cupe. The capacity of each cup is  $\frac{7}{10}$  C. What is the <u>baset</u> number of cups he uses for all tus juice?

4

$$5 \div \frac{1}{10} = \frac{5}{7} \times \frac{19}{7}$$
  
=  $\frac{50}{7}$   
=  $1\frac{1}{7}$   
T+1 = 8 (and)

in the figure below, GPQ is an increase biargie. DEG is a straight line and GG = FQ. ZDEF = 111° and ZHGE = 63°. Find Zy.



BP~681 25 Xituan used a calculator to divide a number by 7. She made a mistake by preasing 4 instead of 7. She obtained the incorrect answer of 257. What should the competaneous be?



in the figure below, ABCO is a square. BGD and AGC are straight lines. BF = FC = CE. What fraction of the ligure is shaded? 26





In the figure below, ACOE is a parallelogram and BOE is \_\_\_\_\_\_CAE < 75\*, \_\_\_\_BOG = 18\* and 66 = 80. Find \_\_\_\_\_B

8



- 48 Ante: .
- Mrs. Two had 4y boxes of tasts. Each box contained 16 tasts. She said 2 boxes of tasts. Given y = 0, how many tasts were left <u>unoptit?</u> 30 418=32 32 社\*5 - 480 x 15 160 2145=30 320

48 0

480-30=450(m)

450 Anic \_\_

End of Paper



NANYANG PRIMARY SCHOOL .

PRELIMINARY EXAMINATION 2023

PRIMARY 6

MATHEMATICS PAPER 2

#### Duration: 1 hour 30 Minutes

#### INSTRUCTIONS TO PUPILS

- 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 allowed.

Name: }

Class: Primary 6 (

Perent's Signature:

Booklet A	/ 20
Bookint 3	/ 25
Paper 2	/ 65
Total	/ 100

}

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

A lamp in 2 kg heavier than a value. The total reases of 5 such lamps to k kg. Express the mass of the value in lamps of k¥.

$$1 \text{ harmp} \rightarrow \frac{K}{5}$$
  
( vase  $\rightarrow \left(\frac{K}{5} - 3\right)$  (and)

Ans: 
$$\frac{\binom{k}{3}-2}{3}$$
 by

The lable shows how much a venteer is paid each day. 2

work?

1ª hour	875
Every additional hour	\$40
For every 4 hours of completed	work, an additional \$10 will be paid.

Mr Morris was paid \$325 for a day's work. How many hours did he

- 100 See \$325 - \$75 = \$150 \$40 x3 + \$10 = \$130 \$250 - 4110 = \$120 \$120 + \$40 =3 4+3=7 (aw)

Ans	 h

In the figure below, ABCD is a square and CEFG is a restangle ∠GCD = 203°. Find ∠BCE. 5

1



\*

LECD = 360 - 203 - 90 \* = 67° 48CE > 90"-67" " 23 \* (ant)

> 23 Ans: \_\_\_ \*



y, c y c donal	56 X 33 165 - 1 West 19 11			
5:3 5	for x to be small, 2 has to be hig			
	168-99=69-3 not multiple of 5			
	168 - 98 = 70			
	70 ± 5 = 14 +			
	14 x2 = 28 Ant 28			
	(QN)			

What is the price of the handphone after adding 8% GST? 4





For quantitories 6 to 17, show your working clearly and write your ensays in the speces provided. The number of marks available is shown in bractate ( ) at the end of each question or part-quastion. (45 mente)

A persitelogram ABCD is drawn on a square get inside a box. .



- (a) By joining dots on the grid with straight lines, draw equare ADEF, Squere ADEF must not overlap with perallelogram ABCD. [1]
- (b) By joining dots on the grid with struight lines, draw sequences CDGH such that CD is twice as long as GH, GH is parallel to CD and DG = GH. Trapazium CDGH must not overlap with parallelogram ABCD. 111
- (c) Find the ratio of the area of panelelogram ABCD to the area of square ADEF to the area of bapezium CDGH, Express your answer in its simplest torm. (1)

ABCD,	ADER,	C06H, 	
\$x\$x\$ = 12 12 = 34	ADE#, _1x5x725 \$X1=10 \$040=20	******** *******	34 2 30 2 13 4 6 2 5 2 3 (m) 61523

a.

At a bakery, Mrs Tan bought B chicken pulls and Mrs Lim bought 6 beef ¥ pulls. They spent the same amount of money buying these pulls, Each beef pull cost \$1,25 mont then explicitly buying these pulls, money did Mrs Tan and Mrs Lim spent atogether?

41-30 ×5 = \$6

9-5=4

\$6 +4 = \$1.50 -> each children

\$1.50 89 = \$13.50

\$13.50 X1 = \$77 (ON)

chect : \$1.50-4 \$1.20 =\$1-70

\$1.704 5 : \$11.50



A group of 5 gifts booked a computer for 2 hours. They book twee to work on the computer for their project. At any time, gely 3 girls worked on the computer. On evenues, how long did each girl work on the computer? Give your ensurer in hours and minutes. .

iliteration i l	-	J.M.M.I	dissionit as	<b>NAME</b>		ويتستحي والمستلية ا	
sligh	ł	girl	worldd	Öh	÷te	our puter	ッチャ
		. <b>1</b>	hx3 ≥	5	հ		
			-	討	6		

≑|ի ստած (ani)

> Ane: \_\_\_ the is min \_ (**F**

At 06.00, Patrick and John banalise firm Town A to Town 8 at constant speeds. They benefied along the same rouls. Patrick travelled at 25 km/h laster than John. When Patrick reached the whil-point bateries 58 Town A and Terrin B, John was 30 km away from the mid-point. At what time did Patrick meech Town B?



when particle matched 5, John with by 30.12 = 60 by behind -

2.4.5. = 2h 24 min

34 mg (386) 44 (286) ل<del>ام <u>ا</u>4 د 10</del> Ans: \_\_\_ 10 10

a Janet, Bamust and Farkana used the same number of ica-pream sticks to make some population. Jensi hed  $\frac{3}{7}$  of her ice-areany sticks ield. Semial had  $\frac{1}{2}$  of his ice-cream elicite left. Farhene had  $\frac{7}{2}$  of her icecream aticks init. They had a total of 1265 ice-cream aticks lat. How many ice-cream slicks did each of them use to make populates?

Janet used 
$$\rightarrow 1 - \frac{3}{7}$$
  
=  $\frac{4}{1}$   
=  $\frac{4}{1}$   
=  $\frac{4}{1}$   
=  $\frac{13}{14}$   
Some used  $\rightarrow 1 - \frac{1}{7}$   
=  $\frac{1}{16}$   
Forhand used  $\rightarrow 1 - \frac{3}{7}$   
=  $\frac{1}{16}$   
Forhand used  $\rightarrow 1 - \frac{3}{7}$   
=  $\frac{1}{2}$   
=



(b) Tank V was filled with some water at first as shown below. All the water from the cubical configurer was pound into Tank V. In the end, Tank V was  $\frac{5}{7}$ -filled with water. Find the height of the water in Tank V at first.



Ans: (b) <u>16-63 (7)</u> [3]

2-cm cubes.



~

(e) How many 2-on cubes did Shu Xn cut from the block?

33 \* 2 = 16 12 \* 2 = 6 2# \* 2 = 12

16 76 X12 = 1152 (any)

Ane: (a) 115) [2]

(b) How many of these 2-cm cubes had more of the taxes oninted?

> 16=2 =14 6-2> # 12-2=10

14×4 × 10 = 560 CON)

Ana: (b) <u>560</u> [2]

1.4 In class, 63, when only one pit stands up and the met of the children are alling down, the number of boys skilling down in  $\frac{3}{2}$  the number of gives skilling down. When only one boy stands up and the rest of the children are alling down, the ratio of the number of give skilling down to the number of give skilling down to the number of give skilling down to the

9

(a) What is the total mant	ar of children in class 61?
1 girl stand, B = 61 = 3 chai 3 = 2 = 3	bay stard, \$2.45 2.40fa) 42.9 2.33
13 - 26 - 39	10: 17 : 39
3 <b>1+</b> 1 =	40 (an)
	Ant: (a) 40

Ane: (a) \_\_\_\_\_\_(2)

(b) After an equatinumber of oris and boys left the class for compatition, the ratio of the number of girls to the number of boys in the class became 0 : 2. Find the total number of children who left the class for competition. retrieve.com retrieve.com

		14444	and and
		-114	Some.
At Ant,	End,		
16 B-+ MH	- <del>6 - 8 - 1 40ff</del> .		
27:13:14	4:2 : 7		
	12:4:14		
<b>31 −16 = 9</b>			
9 x2 + 18 (av)			

Anit. (b) <u>}2</u>[2]

13 Some children sold cards for a fund-raising svart. Each small card was "Big at 55 and safet big card was sold in 50." The table baller shows the number of cards sold by three of the children.

Ch46	Nutribur of Small 15	canta sold Big fg
Junice	12	1
Ceepe	7	9
2 Ym	6	10

(a) Which of the three children in the table above collected the most money? What was the amount of money collected?

Since 
$$\rightarrow$$
 (12745) + (7245)  
\* \$116  
Dago  $\rightarrow$  (7245) + (9585)  
\* \$407  
21 \$109  $\rightarrow$  (425) + (10445)  
= \$100  
Anc (a) Child: Januar

Amount <u>\$116</u> [2]

(b) Bradlay axid as many cards as Deepe but collected \$15 less than tes. How mony small cards did Bradlay val?

7 +9 =16 \$8- \$5 = \$7 (东京: 玄方:= 8 7 +5 = 12 (ans) Check: 12 x \$5 + 4 x \$8 ~ \$9) \$92+ \$15 = \$107

(b) <u>12</u> (2)

EFGH is a square. FG = MG and EK = JK. FOL, EMG, EKL and EHJ and straight fines. ZFEL is being of ZFLE. 45 90 . L 19-5 (a) Find ZFMG. /F 6m = 45" LFML & 10"-45" Ane: (a) \_\_\_\_\_\_\_ (1) \* 67:5" (ars) (b) Find (GEL In AFLE, LP54 = 45 \* 3 unis = 180\*-90\* 2 68L \* 60\*- 45\* - > 40\* \* 15 \* Canit 1 umit = 40\*+3 = 30\* 1 will = 10" x2 Ank (b) \_\_\_\_\_ 15" \_\_\_\_ (2) = 60" (c) Find ZKJE. In because AEKJ, 2 KET = 90 -40 " = 30 \* (and) \*×kje Ane: (c) \_\_\_\_\_\_\_ 

16 A company offered 150 laptope at a 20% discount during a 5-day sale. The line graph above live number of laptops left unexist at the end of each day.



13

The figure below is made up of a rectangle ABCD and a semicircle. AEC is a similarit line. The arc of the semicircle touches AB at part F. DC = 16 cm and AF = FB.

12



(Take # = 3.14)

```
(a) Find the even of the semicircle.

redents : 16 \pm 3

: 9

Arms = \frac{1}{2} \pm 3 \cdot 14 \pm 3 \pm 14

= 100 · \frac{1}{2} + 3 = 14 \pm 3 \pm 3

= 100 · \frac{100 - 410\pi^{3}}{100}

Arms (a) <u>100 - 410\pi^{3}</u> (7)

(b) Find the difference between Arms X and Arms Y.

\chi \pm Z = Z - Y = \chi \pm Y

Arms \Delta Acc0 = \frac{1}{2} \times 3 \times 16

= 64

Arms \Delta Acc0 = \frac{1}{2} \times 3 \times 16

= 64

Arms of guarder dete = \frac{1}{2} \pm 3 \cdot 16 \pm 3 \pm 3 \pm 3

= 50 \cdot 34^{2}

Arms of becomprised Arms (b) <u>50 \cdot 24 \text{ cm}^{2} (3)

\frac{64 - (3 \cdot 76^{2} \pm 50 \cdot 24)}{100} \text{ cm}^{2} (cm)</u>
```

. . ........

BP~686