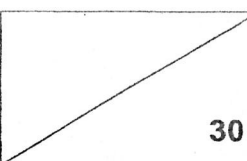


Name: _____ ()

Class: Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**Primary 6 Mathematics****2023 Weighted Assessment****Term 1 Week 9**

Total Marks	 30
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Parent's/Guardian's Signature**Time : 50 minutes****INSTRUCTIONS TO CANDIDATES**

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

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

This booklet consists of 9 printed pages.

Questions 1 and 2 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. (4 marks)

Do not write in this space

1. Mr Lee has \$6000 in his bank account. The bank gives 0.3% interest at the end of each year. He does not withdraw any of his savings. What is the total amount of money he will have in the bank at the end of one year?

Method 1:

$$6000 \times \frac{0.3}{100} = 18$$

$$6000 + 18 = 6018$$

Method 2:

$$6000 \times \left(1 + \frac{0.3}{100}\right) = 6018$$

Ans: \$ 6018

2. A group of 4 girls and 3 boys took a quiz. The average score of the girls was 28. The average score of the boys was 27. Find the total score of all the children.

$$\begin{aligned} \text{Total score of girls} &= 4 \times 28 \\ &= 112 \end{aligned}$$

$$\begin{aligned} \text{Total score of boys} &= 3 \times 27 \\ &= 81 \end{aligned}$$

$$\begin{aligned} \text{Total score of 7 children} &= 112 + 81 \\ &= 193 \end{aligned}$$

$$\text{Average Score} = \frac{\text{Total Score}}{\text{No. students}}$$

Alt method:

$$4 \times 28 + 3 \times 27 = 193$$

Ans: 193

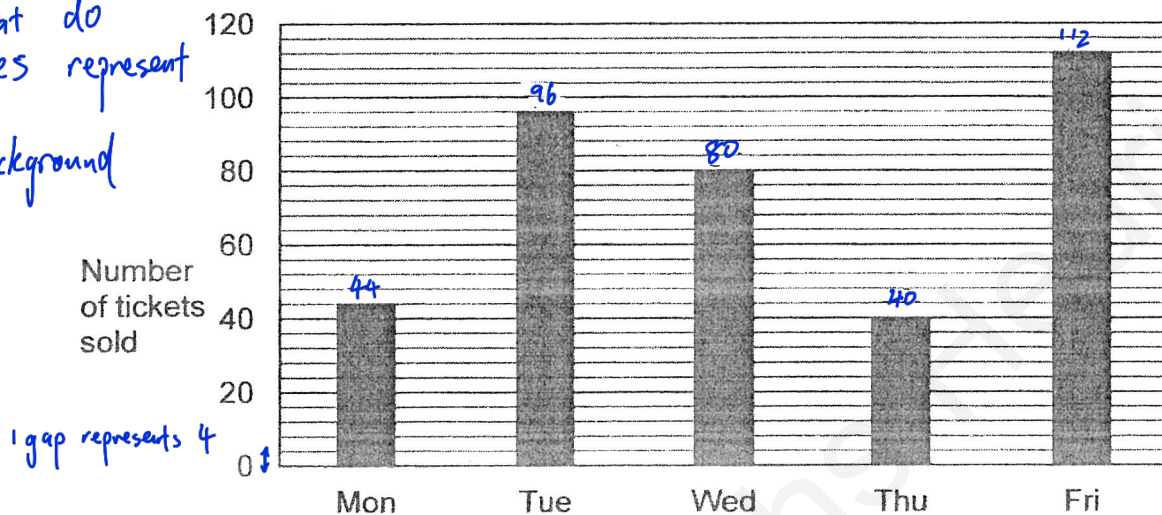
For questions 3 to 9, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets () at the end of each question or part-question. (26 marks)

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3. The graph below shows the number of tickets sold for a basketball match from Monday to Friday.

1) What do axes represent

2) Background



- (a) What was the total number of tickets sold from Monday to Wednesday?

$$44 + 96 + 80 = 220$$

Ans : (a) 220 [1]

- (b) The usual price of a ticket was \$70. On Friday, tickets were sold at a 5% discount. How much money was collected from the sale of tickets on Friday?

$$112 \times 70 \times \frac{95}{100} = 7448$$

Ans : (b) \$7448 [2]

UTM - Equal Concept

4. In a library, $\frac{3}{4}$ of the number of fiction books is equal to $\frac{1}{6}$ of the number of non-fiction books. There are 5940 fiction and non-fiction books altogether. How many fiction books are there in the library?

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	Equal portion	Total
F	$3u$	$4u$ //
NF	1×3 $3u$ ↙	6×3 $18u$ ↙
Total		$22u$

$$22u = 5940$$

$$1u = 5940 \div 22$$

$$= 270$$

$$4u = 4 \times 270$$

$$= 1080$$

Alt:

$$4u = 4 \times \frac{5940}{22}$$

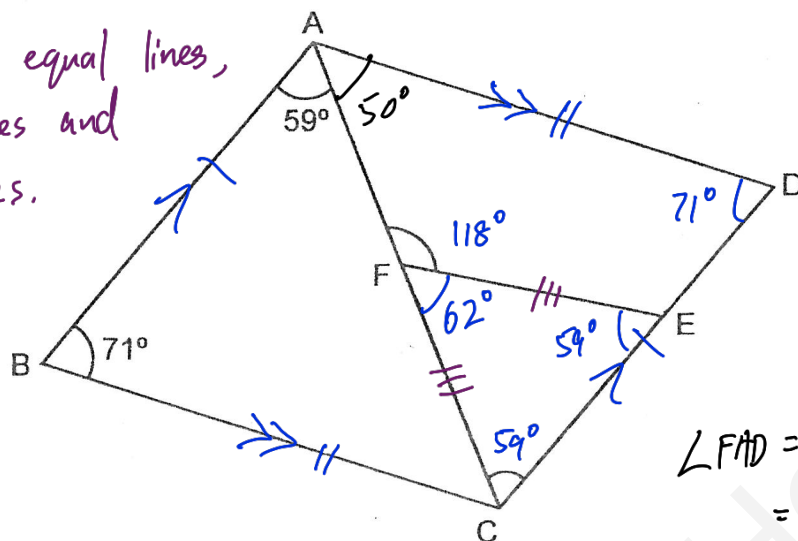
$$= 1080$$

Ans : 1080 [3]

5. ABCD is a parallelogram. CFE is an isosceles triangle with $CF = EF$. AFC is a straight line.

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* mark out equal lines, parallel lines and known angles.



$$\angle FAD = 180^\circ - 71^\circ - 59^\circ = 50^\circ$$

- (a) Find $\angle AFE$.

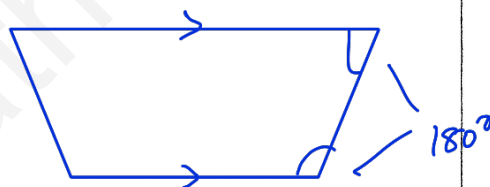
$\triangle ABC$ is identical to $\triangle ADC$.

$$\angle BAC = \angle ACD = 59^\circ$$

$$\angle FCE = \angle FEC = 59^\circ$$

$$\begin{aligned} \angle CFE &= 180^\circ - 59^\circ - 59^\circ \\ &= 62^\circ \end{aligned}$$

$$\begin{aligned} \angle AFE &= 180^\circ - 62^\circ \\ &= 118^\circ \end{aligned}$$



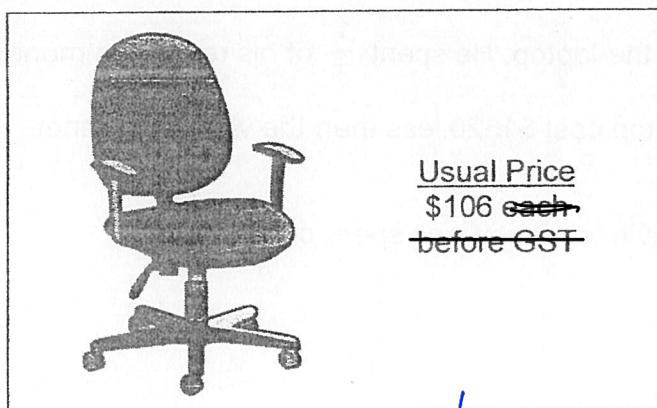
Ans : (a) 118° [2]

- (b) Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
AFED is a trapezium.		✓	
$\angle ACD = \angle ADC$.		✓	

[1]

6. At a furniture shop, office chairs are sold at the price shown.



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During a sale in October, the shop offered a 25% discount on the office chair.

- (a) What was the discount given for each office chair?

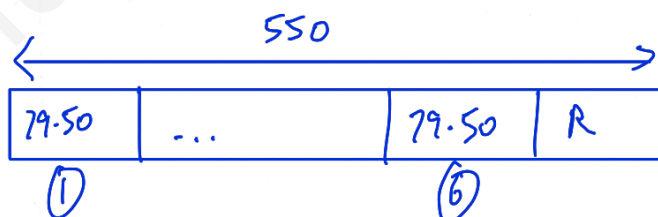
$$106 \times \frac{1}{4} = 26.50$$

Ans : (a) \$26.50 [1]

- (b) Karen had \$550. What was the greatest number of chairs she could buy during the sale in October?

$$106 - 26.50 = 79.50$$

$$550 \div 79.50 = 6 \text{ R } 73$$



Ans : (b) 6 [2]

UTM - Remainder Concept (1)

7. Xavier spent $\frac{2}{7}$ of his money on a laptop and a refrigerator. The refrigerator cost 2 times as much as the laptop. He spent $\frac{1}{3}$ of his remaining money on a vacuum cleaner. [The laptop cost \$1320 less than the vacuum cleaner.]

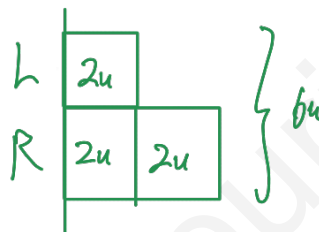
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- (a) What fraction of Xavier's money was spent on the laptop?

$$\begin{array}{r} \text{L + R} \\ 2 \times 3 \\ 6u \\ \hline \text{VC} \\ 1 \times 5 \\ 5u \end{array}$$

$$\begin{array}{r} \text{Remainder} \\ 5 \times 3 \\ 15u \\ \downarrow \\ \text{Left} \\ 2 \times 5 \\ 10u \end{array}$$

$$\begin{array}{r} \text{Total} \\ 7 \times 3 \\ 21u \\ \hline \text{Total} \\ 3 \times 5 \\ 15u \end{array}$$



$$\frac{1}{3} \times \frac{2}{7}$$

Ans: (a) $\frac{2}{21}$ [1]

- (b) How much money did he have at first?

$$5u - 2u = 1320$$

$$3u = 1320$$

$$1u = 1320 \div 3$$

$$= 440$$

$$21u = 21 \times 440$$

$$= 9240$$

Ans: (b) \$9240 [3]

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8. Figure 1 shows a rectangular tile.

Figure 2 is formed using 5 such tiles. The perimeter of Figure 2 is 360 cm.

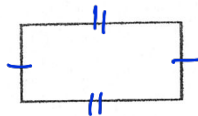


Figure 1

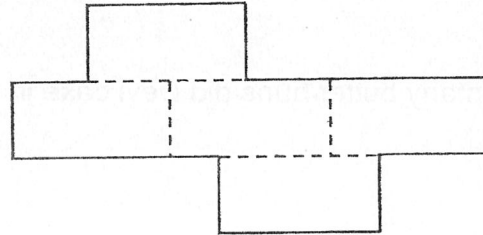


Figure 2

(a) Find the perimeter of Figure 1.

* Perimeter of F2 is
3 times the perimeter of F1

$$360 \div 3 = 120$$

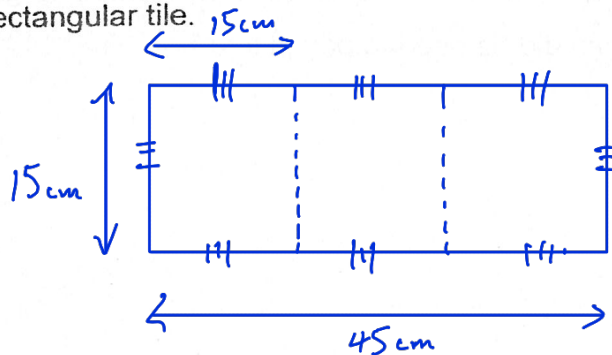


Ans : (a) 120 cm [2]

(b) The length of the rectangular tile was 3 times as long as its breadth.
Find the area of the rectangular tile.

$$120 \div 8 = 15$$

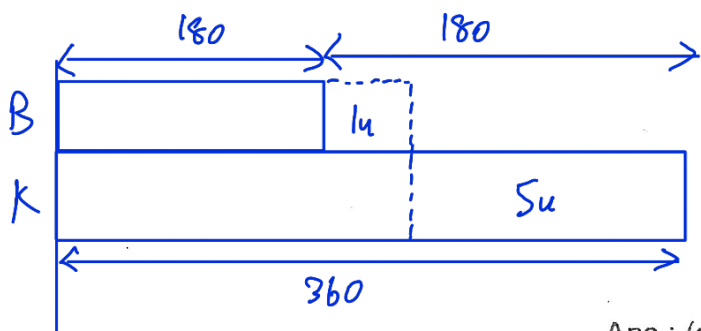
$$3 \times 15 \times 15 = 675$$



Ans : (b) 675 cm² [3]

9. ^B (Devi had 180 butter buns and ~~two times as many~~ ³⁶⁰ kaya buns in the morning. In the afternoon, she baked some butter buns and sold some kaya buns. The number of kaya buns sold was 5 times of the number of butter buns baked. ^C She had the ²¹⁰ same number of butter buns and ²¹⁰ kaya buns in the end. ^A Do not write in this space

- (a) How many butter buns did Devi bake in the afternoon?



Can draw model straightaway

$$2 \times 180 = 360$$

$$360 - 180 = 1u + 5u$$

$$6u = 180$$

$$1u = 180 \div 6$$

$$= 30$$

Ans : (a) 30 [1]

- (b) How many buns did Devi have altogether in the end?

$$180 + 30 = 210$$

$$210 \times 2 = 420$$

Ans : (b) 420 [2]

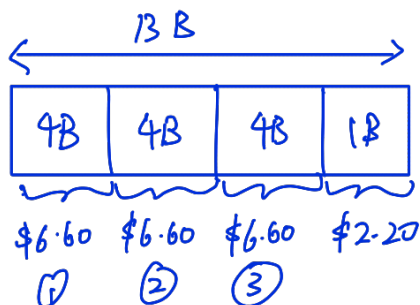
- (c) The remaining buns were sold at \$2.20 each and 1 bun was given free for every 3 buns bought. Mr Poh wanted to get 13 buns. How much money did he need to pay in total?

Bun	Bun	Bun	Bun
\$2.20	\$2.20	\$2.20	Free

4 buns cost $3 \times 2.20 = 6.60$

$13 \div 4 = 3 \text{ R } 1$

$3 \times 6.60 + 2.20 = 22$



Ans : (c) \$22 [2]

THE END