Test: Primary 6 Math (Term 4) - Henry Park (Y0)

Points: 59 points

Name: _____ **Score:** _____

Date: _____

Signature: _____

Select multiple choice answers with a cross or tick:

- ○ Only select one answer
- ☐ Can select multiple answers

Question 1 of 60

Primary 6 Math (Prelim) 1 pt

In 31.42, which digit is in the tenths place?

- ○ **A)** 1
- ○ **B)** 2
- ○ **C)** 3
- ○ **D)** 4

Question 2 of 60

Primary 6 Math (Prelim) 1 pt

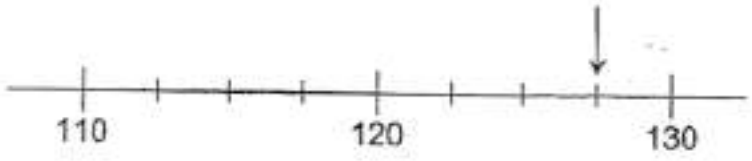
Express $1\frac{3}{50}$ as a decimal.

- ○ **A)** 1.06
- ○ **B)** 1.3
- ○ **C)** 1.35
- ○ **D)** 1.6

Question 3 of 60

Primary 6 Math (Prelim) 1 pt

Which of the following is closest to the number indicated by the arrow in the number line below?



- **A)** 123
- **B)** 126
- **C)** 127
- **D)** 129

Question 4 of 60

Primary 6 Math (Prelim) 1 pt

Andre had a number of red apples, green apples and oranges in the ratio 8:3:2. What is the ratio if the number of oranges to the total number of apples that Andre had?

- **A)** 2:11
- **B)** 2:13
- **C)** 11:2
- **D)** 13:2

Question 5 of 60

Primary 6 Math (Prelim) 1 pt

On a bus, 9 of the passengers were men, 15 of the passengers were women and the rest were children. Given that 20% of the passengers were children, how many passengers were there in total on the bus?

- **A)** 24
- **B)** 30
- **C)** 96
- **D)** 120

Question 6 of 60

Primary 6 Math (Prelim) 1 pt

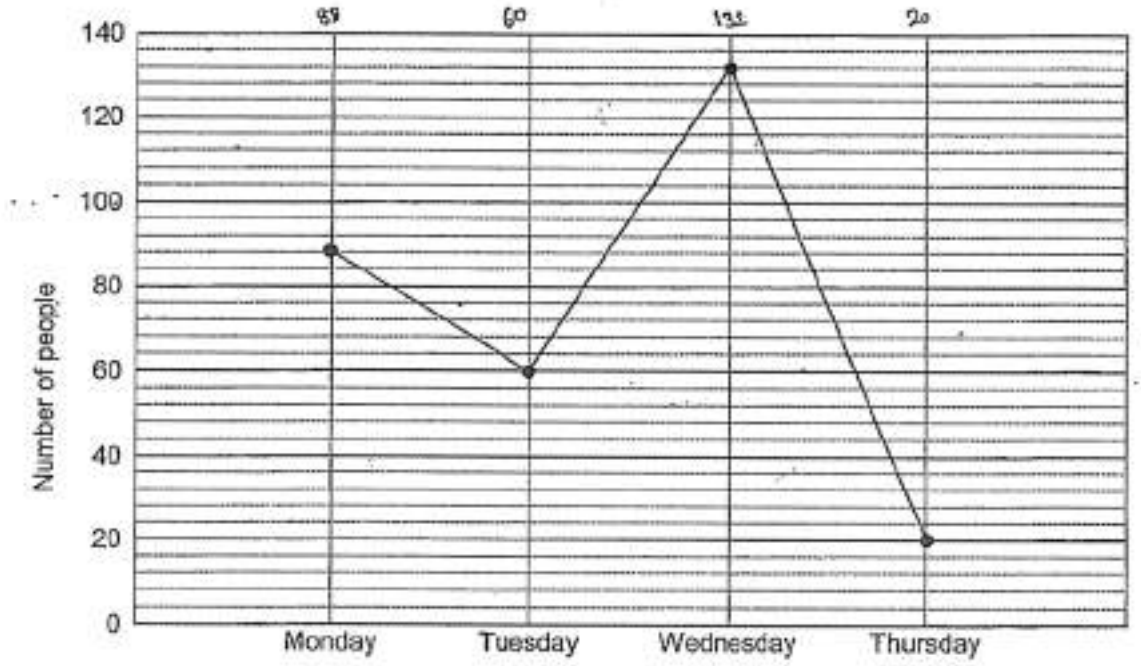
A train left Town X for Town Y. The journey took 3h 50min. The train arrived at Town Y at 11 05. What time did the train leave Town X?

- **A)** 07 15
- **B)** 08 40
- **C)** 08 45
- **D)** 08 55

Question 7 of 60

Primary 6 Math (Prelim) 1 pt

The graph shows the number of people who visited a shop from Monday to Thursday.



How many people visited the shop on Monday and Tuesday?

- **A)** 142
- **B)** 144
- **C)** 148
- **D)** 154

Question 8 of 60

Primary 6 Math (Prelim) 1 pt

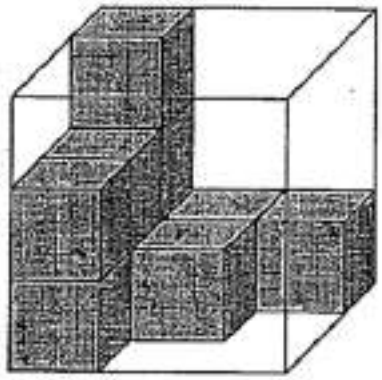
Given that a total of 104 adults visited the shop on Wednesday and Thursday, find the ratio of the number of children to the number of adults who visited the shop on these two days

- **A)** 6:13
- **B)** 6:19
- **C)** 13:6
- **D)** 13:19

Question 9 of 60

Primary 6 Math (Prelim) 1 pt

The figure below shows a plastic cubical container partly filled with unit cubes. How many more unit cubes are needed to fill the container completely?



- **A)** 8
- **B)** 10
- **C)** 17
- **D)** 19

Question 10 of 60 Primary 6 Math (Prelim) 1 pt

Which one the following fractions is larger than $\frac{1}{4}$?

A) $\frac{6}{24}$

B) $\frac{5}{21}$

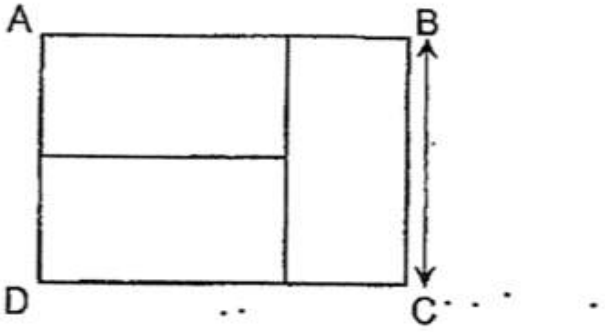
C) $\frac{4}{15}$

D) $\frac{3}{13}$;

Question 11 of 60

Primary 6 Math (Prelim) 1 pt

In the figure below, ABCD is made up of 3 identical rectangles. The perimeter of ABCD is 60 cm. Find the length of BC.



- **A)** 6 cm
- **B)** 12 cm
- **C)** 18 cm
- **D)** 20 cm

Question 12 of 60

Primary 6 Math (Prelim) 1 pt

The lengths of two ribbons are in the ratio 5:3. The length of one ribbon is 30cm longer than the other. Find the length of the shorter ribbon.

- **A)** 18 cm
- **B)** 45 cm
- **C)** 50 cm
- **D)** 75 cm

Question 13 of 60

Primary 6 Math (Prelim) 1 pt

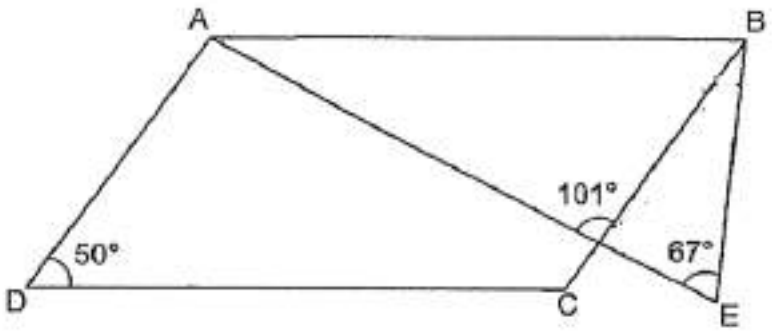
At first, Walter and Ming Ming were facing the same direction. Then, Walter turned 225 anti-clockwise to face South-West and Ming Ming turned 45 clockwise to face South-East. Which direction were Walter and Ming Ming facing at first?

- **A)** East
- **B)** North
- **C)** South
- **D)** West

Question 14 of 60

Primary 6 Math (Prelim) 1 pt

In the figure below, ABCD is a parallelogram and ABE is a triangle. Find ∠ABE.



- **A)** 50
- **B)** 84
- **C)** 90
- **D)** 94

Question 15 of 60

Primary 6 Math (Prelim) 1 pt

The chairs in a hall were arranged in rows. Each row had the same number of chairs. William saw on one of the chairs. There were 5 chairs to his right and 5 chairs to his left. There were 4 rows of chairs in front of him and 8 rows of chairs behind him. How many chairs were there altogether in the hall?

- **A)** 120
- **B)** 130
- **C)** 132
- **D)** 143

Question 16 of 60

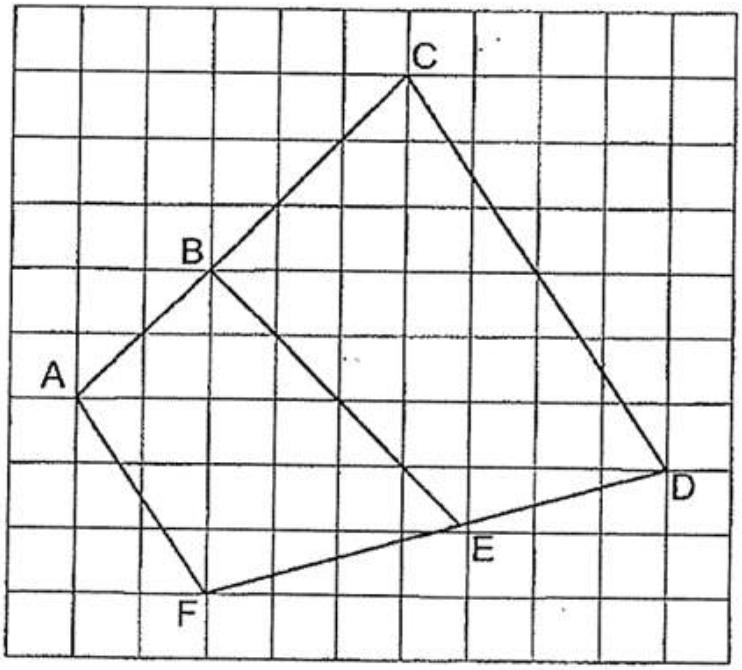
Primary 6 Math (Prelim) 1 pt

Find the value of $\frac{1}{2} \div \frac{1}{10}$

Question 17 of 60

Primary 6 Math (Prelim) 1 pt

In the figure below, name two lines that are parallel to each other.



- [ ] **A)** AB
- [ ] **B)** AC
- [ ] **C)** BC
- [ ] **D)** CD
- [ ] **E)** BE
- [ ] **F)** AF
- [ ] **G)** FE
- [ ] **H)** ED
- [ ] **I)** FD

Question 18 of 60

Primary 6 Math (Prelim) 1 pt

A rectangular tank measures 12cm by 10cm by 9cm. What is the capacity of the tank?

Question 19 of 60 Primary 6 Math (Prelim) 1 pt

Express 9 minutes as a percentage of 1 hour

Question 20 of 60 Primary 6 Math (Prelim) 1 pt

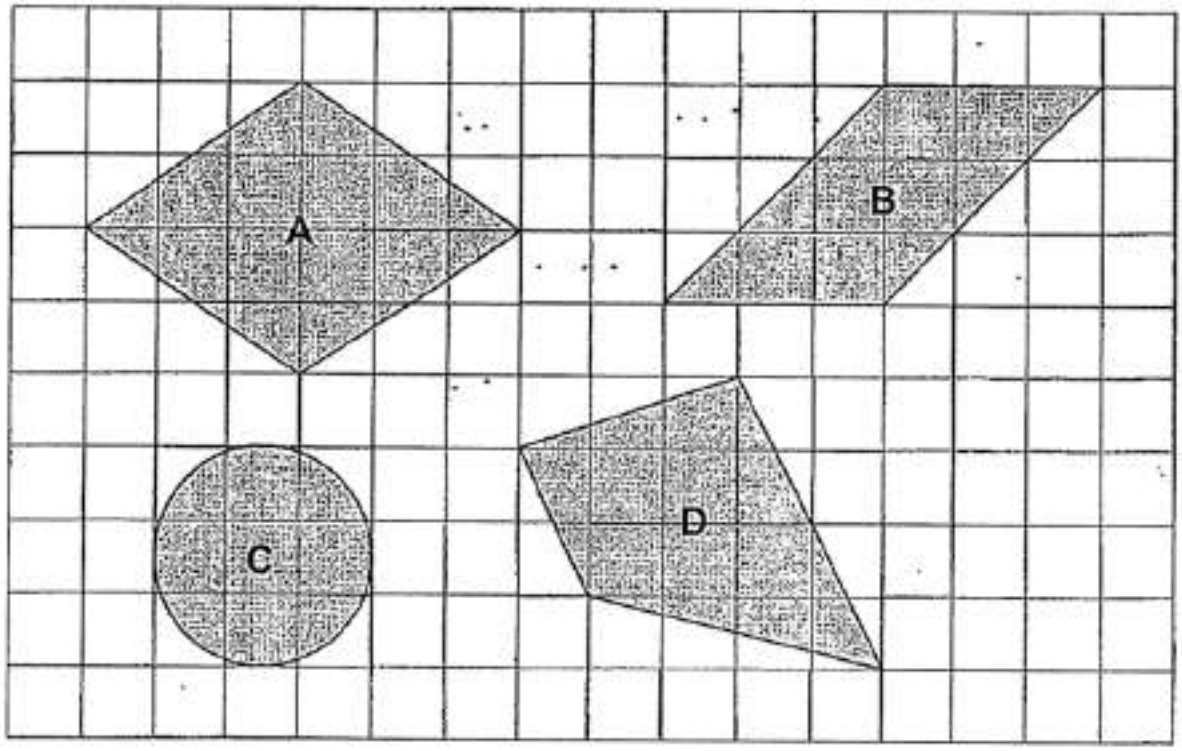
Find the missing number in the box.

$$8 + \boxed{?} \div 2 = 12$$

Question 21 of 60

Primary 6 Math (Prelim) 1 pt

Four figures, A, B, C and D are drawn on a square grid.



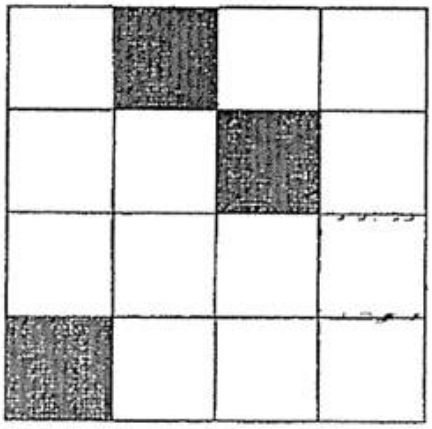
Name all the figures with at least one line of symmetry.

- **A)** A
- **B)** B
- **C)** C
- **D)** D

Question 22 of 60

Primary 6 Math (Prelim) 0 pts

Shade one more square in the figure below to make it symmetrical.

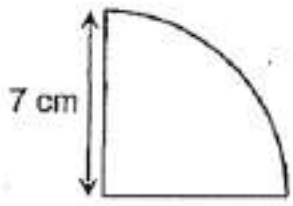


Please type "done" to proceed to the next question

Question 23 of 60

Primary 6 Math (Prelim) 1 pt

The figure below shows a quarter circle of radius 7 cm. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)



Question 24 of 60

Primary 6 Math (Prelim) 1 pt

Mrs Tan deposits $4000 in XYZ Bank for one year the interest rate of 1.4% per year. How much interest will she get at the end of one year?

Question 25 of 60

Primary 6 Math (Prelim) 1 pt

Ellie had $(y+7). Flora had $4 less than Ellie. Gloria had $2y more than Flora.

a) Find the total amount of money the three girls had in terms of y. Express your answer in the simplest form.

Question 26 of 60

Primary 6 Math (Prelim) 1 pt

b) Given that the three girls had a total of $33, find the value of y.

Question 27 of 60

Primary 6 Math (Prelim) 1 pt

Ace, Ben and Charlie have some marbles. The number of marbles that Ace and Ben have is in the ratio 4:5. The total number of marbles Ace and Ben have is three times the number of marbles Charlie has. Given that Ace and Charlie have 350 marbles, how many more marbles does Ben have than Ace?

Question 28 of 60

Primary 6 Math (Prelim) 1 pt

There are 40 pupils in class 6J. The table below shows the number of points each pupil in the class scored in the first round of a game.

Points scored	0	1	2	3	4	5
Number of pupils	3	6	7	8	10	6

(a) How many pupils in class 6J scored at least 3 points?

Question 29 of 60

Primary 6 Math (Prelim) 1 pt

b) Pupils who did not score enough points in the first round could not take part in the second round. 16 pupils could not take part in the second round. What was the least number of points a pupil must have scored in order to take part in the second round?

Question 30 of 60

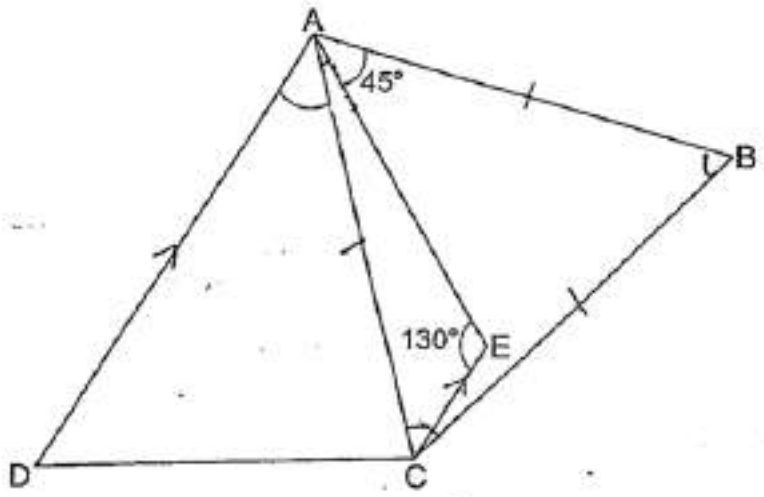
Primary 6 Math (Prelim) 1 pt

A piece of wire is bent to form a rectangle of area 162cm2. The length of the rectangle is twice its breadth. Find the breadth of the rectangle.

Question 31 of 60

Primary 6 Math (Prelim) 1 pt

In the figure below, ABC is an equilateral triangle and AECD is a trapezium where AD // CE. Find ∠DAC.



Question 32 of 60

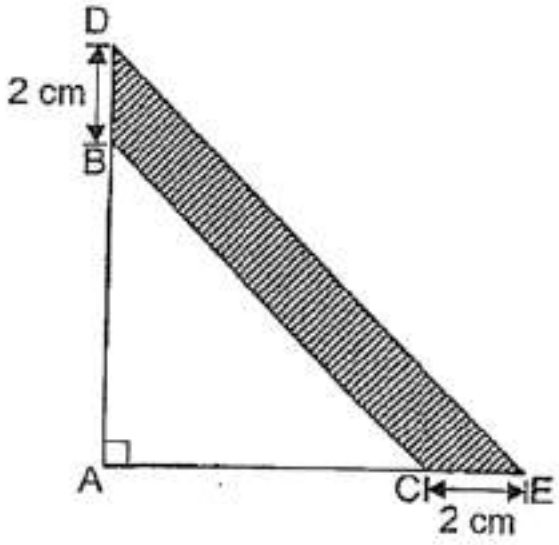
Primary 6 Math (Prelim) 1 pt

At first, Kate placed all her beads into 30 boxes with an equal number of beads in each box. 6 of the boxes were broken and the beads in these broken boxes were then placed into the remaining 24 boxes. As a result, the number of beads in each remaining box increased by 10. What was the number of beads in each box at first?

Question 33 of 60

Primary 6 Math (Prelim) 1 pt

In the figure, ABC and ADE are right-angled isosceles triangles. BD = CE = 2 cm. The area of the shaded part is 18 cm². Find the length of AB.



Question 34 of 60

Primary 6 Math (Prelim) 1 pt

Jane had some money. She spent $15 and gave Lisa $10. In the end, both Jane and Lisa had the same amount of money. How much more money did Jane have than Lisa at first?

Question 35 of 60 Primary 6 Math (Prelim) 1 pt

Mr Aziz had some apples. He sold $\frac{1}{5}$ of the apples on Monday and 80 apples on Tuesday. In the end, he was left with 30% of the apples he had at first. How many apples did he have in the end?

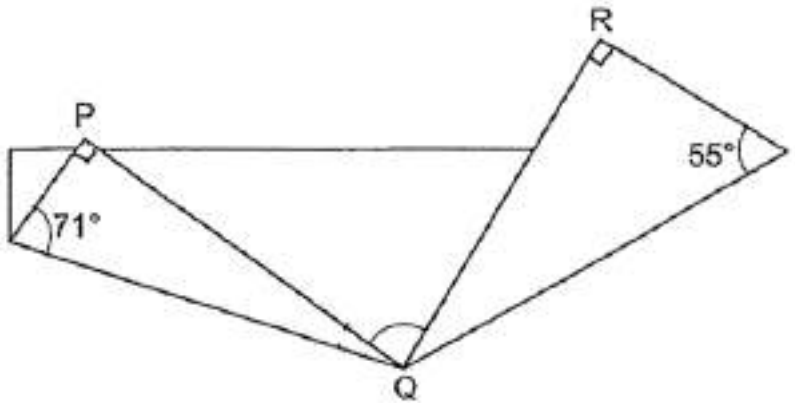
Question 36 of 60 Primary 6 Math (Prelim) 1 pt

Printer A can print 300 pages in 12 minutes while Printer B can print 300 pages in 10 minutes. If both printers are used at the same time, how many pages can they print in $\frac{1}{2}$ h?

Question 37 of 60

Primary 6 Math (Prelim) 1 pt

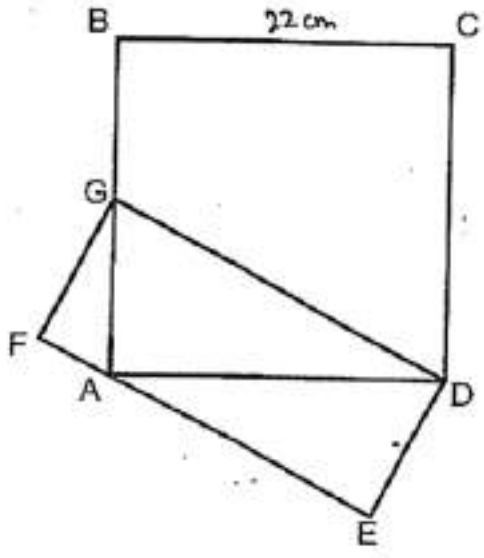
A rectangular piece of paper is folded at two of its corners, P and R, as shown. Find ∠PQR.



Question 38 of 60

Primary 6 Math (Prelim) 1 pt

The figure below is made up of square ABCD and rectangle DEFG. Given that BC = 22 cm and that G is the mid-point of AB, find the area of the figure.



Question 39 of 60

Primary 6 Math (Prelim) 1 pt

Chin Meng earned the same amount of money each month. In October, he spent $1070 and saved the rest. The amount he spent in November was a 30% decrease from what hue spent in October. As a result, his savings from November increased by 60%. How much money did Chin Meng earn each month?

Question 40 of 60

Primary 6 Math (Prelim) 1 pt

The table below shows the charges for water usage by PRB company.

Monthly Water Usage	Price per m^3
0 to 40 m^3	$1.21
More than 40 m^3	$1.52

(a) Mdm Salimah's family used 40 m^3 of water in August. How much was her family charged for their water usage?

Question 41 of 60

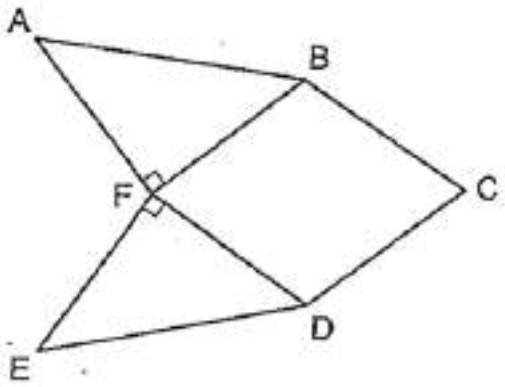
Primary 6 Math (Prelim) 1 pt

b) Mr Muthu spent $103.12 on water usage ins September. What was the volume of water Mr Muthu used in that Month?

Question 42 of 60

Primary 6 Math (Prelim) 1 pt

The figure below is made up of rhombus BCDF and two identical right-angled isosceles triangles, ABF and EFD. The perimeter of rhombus BCDF is $12p$ cm and the length of AB is $(p + 3)$ cm.



(a) Find the perimeter of figure ABCDEF in terms of p in the simplest form.

Question 43 of 60

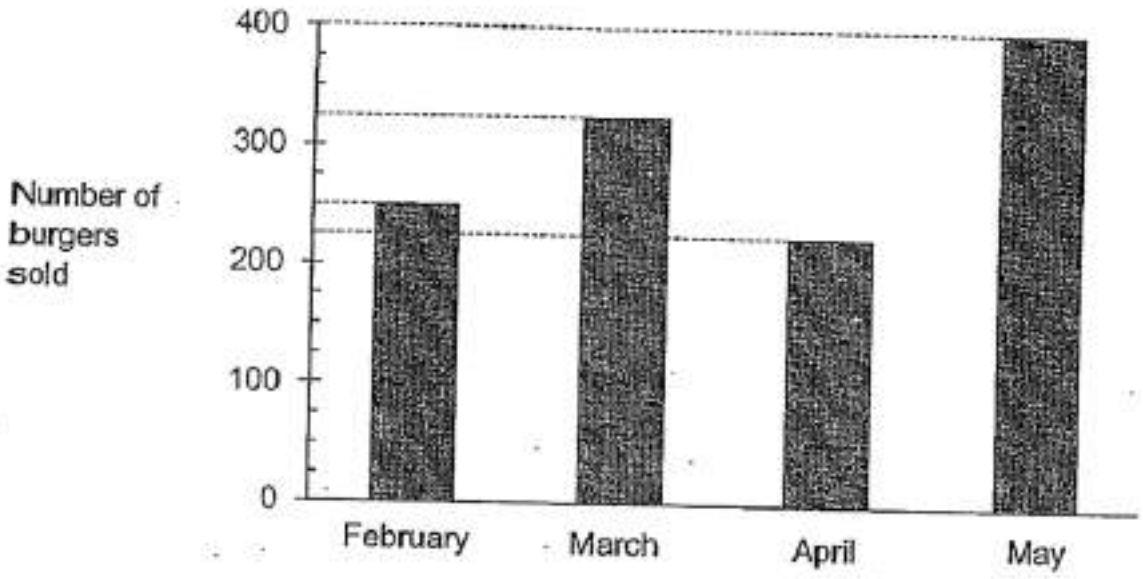
Primary 6 Math (Prelim) 1 pt

b) Find the area of triangle ABF given that p=6

Question 44 of 60

Primary 6 Math (Prelim) 1 pt

The graph below shows the number of burgers sold by a fast food restaurant from February to May.



(a) What is the average number of burgers sold in each month from February to May?

Question 45 of 60

Primary 6 Math (Prelim) 1 pt

b) Find the percentage increase in the number of burgers sold from February to March

Question 46 of 60

Primary 6 Math (Prelim) 1 pt

At Candyland, chocolates are only sold in packets of 5 pieces and lollipops are only sold in packets of 4 sticks at the prices shown below.

	
Chocolates 5 pieces for $1.99	Lollipops 4 sticks for $0.99

Judy spent $101.34 on some chocolates and lollipops at Candyland. She put all the chocolates and lollipops into bags such that there were 3 pieces of chocolates and 2 sticks of lollipops in each bag. How many sticks of lollipops did Judy buy from Candyland?

Question 47 of 60

Primary 6 Math (Prelim) 1 pt

In an Art Club, the number of girls is 4 times the number of boys. The number of girls who wear spectacles is $\frac{2}{5}$ the total number of children who wear spectacles in the Art Club. Given that 170 girls and 20 boys do not wear spectacles, find the total number of girls in the Art Club.

Question 48 of 60 Primary 6 Math (Prelim) 1 pt

The table below shows the prices of admission tickets to a theme park.

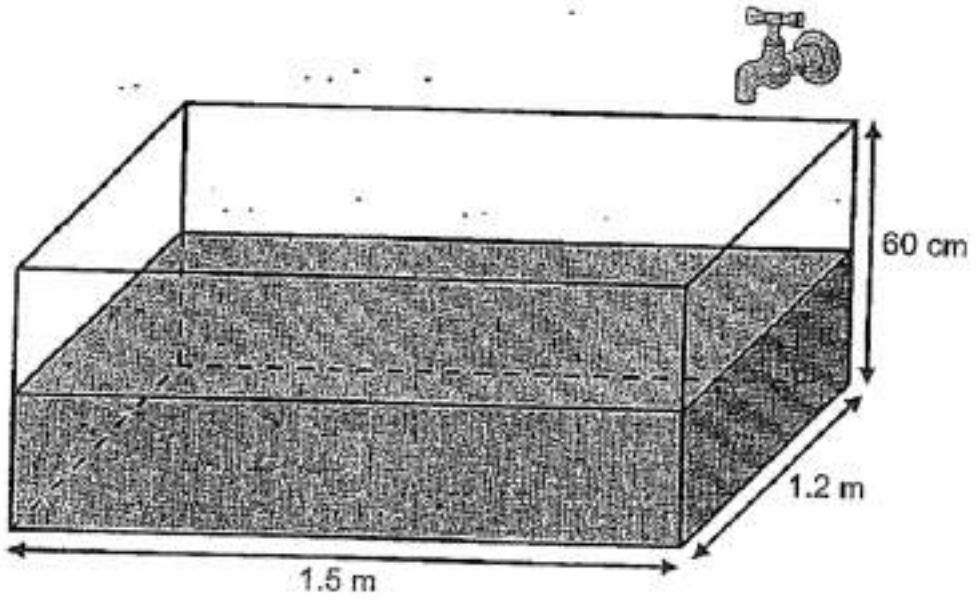
Type of ticket	Price per ticket
Child	$43
Adult	$55
Senior Citizen	$32

$47 05

Mr Suraj paid ~~$5005~~ for admission tickets to the theme park for a group of tourists. $\frac{2}{3}$ of the tourists were children. The remaining tourists were adults and senior citizens in the ratio 5 : 2. How many children were there in the group of tourists?

Question 49 of 60 Primary 6 Math (Prelim) 1 pt

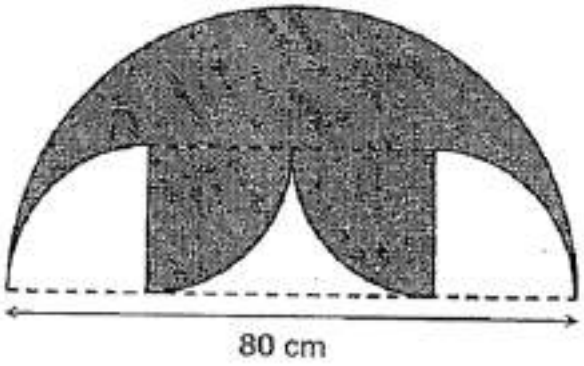
At first, a rectangular tank measuring 1.5 m by 1.2 m by 60 cm was half-filled with water as shown below. A tap was then turned on for half an hour to allow water to flow into the tank. In the end, the tank was $\frac{3}{5}$-filled. How many litres of water flowed from the tap per minute?



Question 50 of 60

Primary 6 Math (Prelim) 1 pt

The outline of the shaded figure below is formed by a semicircle, four identical quarter circles and two straight lines.



(a) Find the area of the shaded figure.

Question 51 of 60

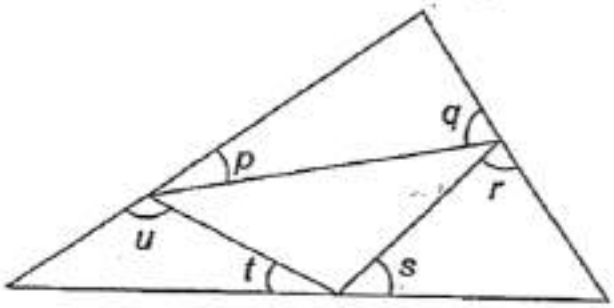
Primary 6 Math (Prelim) 1 pt

b) Find the perimeter of the shaded figure (Take pi = 3.14)

Question 52 of 60

Primary 6 Math (Prelim) 1 pt

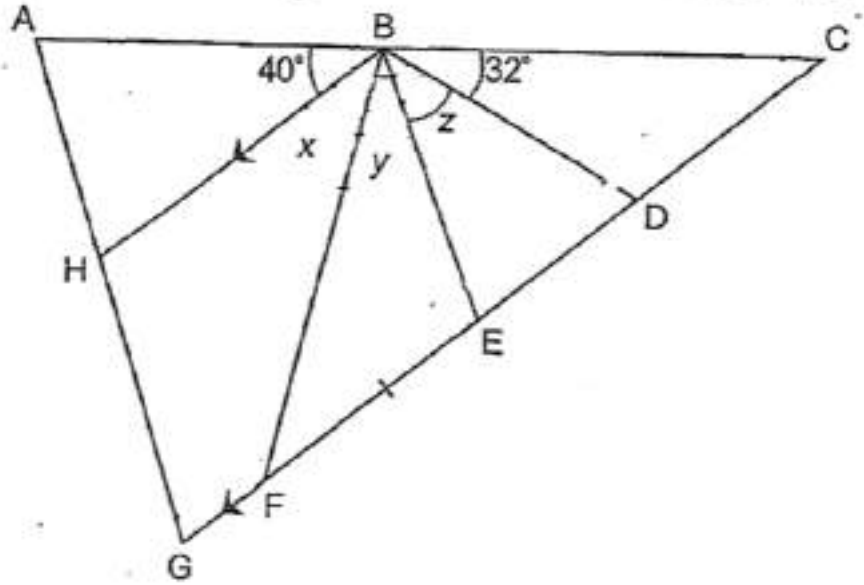
(a) In the figure below, find the sum of $\angle p$, $\angle q$, $\angle r$, $\angle s$, $\angle t$ and $\angle u$.



Question 53 of 60

Primary 6 Math (Prelim) 1 pt

The figure below is not drawn to scale.
In the figure, AGC is a triangle where BH // EG and BD = BE = EF.



(i) Find $\angle z$.

Question 54 of 60

Primary 6 Math (Prelim) 1 pt

x=y=z

- **A)** True
- **B)** False
- **C)** Not possible to tell

Question 55 of 60

Primary 6 Math (Prelim) 1 pt

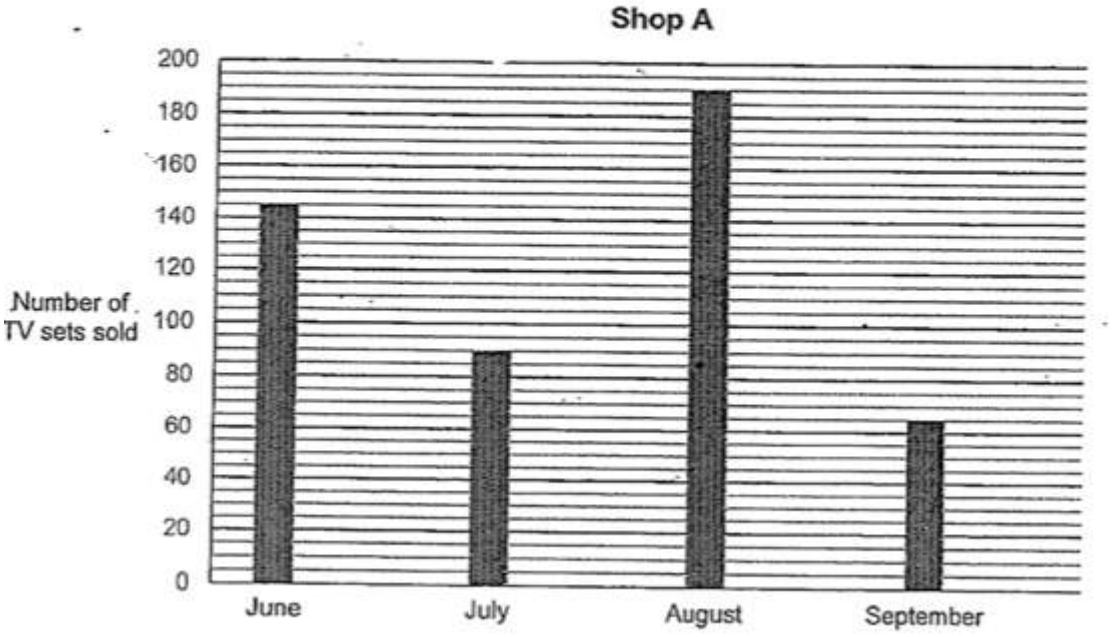
ABEG is a trapezium

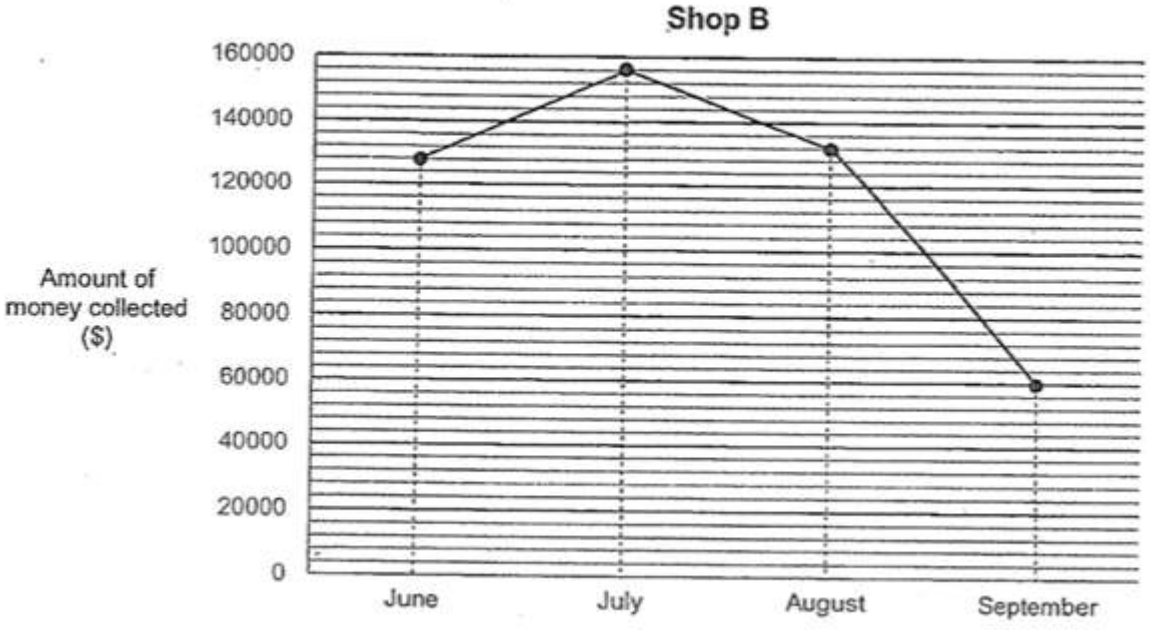
- **A)** True
- **B)** False
- **C)** Not possible to tell

Question 56 of 60

Primary 6 Math (Prelim) 1 pt

The graphs below show the number of television sets sold by Shop A and the amount of money collected by Shop B from the sale of television sets from June to September.





a) Given that Shop B sold each television set at a fixed price of $1200, did it sell more, fewer or an equal number of television sets than Shop A in a month of July? Show your working clearly

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○ **A)** More

B) Fewer

C) Equal

Question 57 of 60

Primary 6 Math (Prelim) 1 pt

b) Shop A had a promotion in the month of August where each television set was sold air 30% discount. Given that Shop A collected $34 250 more than Shop B in August, find the amount of discount given by Shop A for each television set sold

Question 58 of 60

Primary 6 Math (Prelim) 1 pt

Cedric used some sticks to form figures that follow a pattern. The first four figures are shown below.

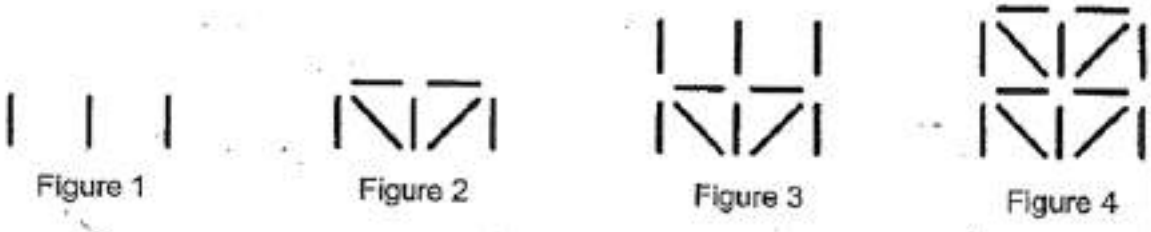

Figure 1 Figure 2 Figure 3 Figure 4

(a) The table below shows the number of sticks for the first four figures. Complete the table for Figure 5.

Figure number	Number of sticks
1	3
2	7
3	10
4	14
5	

[1]

Question 59 of 60 Primary 6 Math (Prelim) 1 pt

b) How many stickers are there in Figure 28?

Question 60 of 60 Primary 6 Math (Prelim) 1 pt

c) Cedric used 2327 sticks to form a figure. Which Figure number did he form?