Test:	Primary 6 Math (Term 4) - Nanyang
Points:	95 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 55   Primary 6 Math (Prelim)   1 pt

Each question carries 1 mark. For each question, four options are given. One of them is the correct answer. (20 marks)
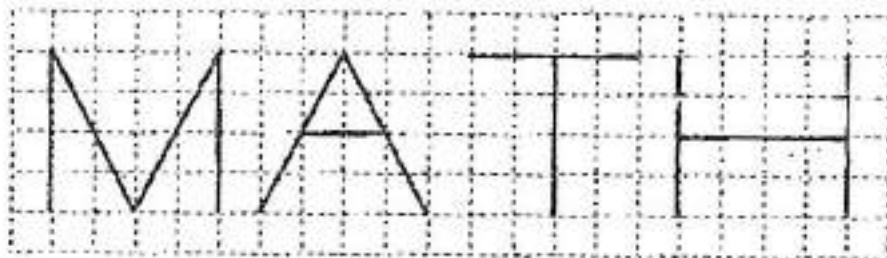
Round 1789 to nearest hundred.

_____

◯ **A)** 1700
◯ **B)** 1790
◯ **C)** 1800
◯ **D)** 2000

Question 2 of 55   Primary 6 Math (Prelim)   1 pt

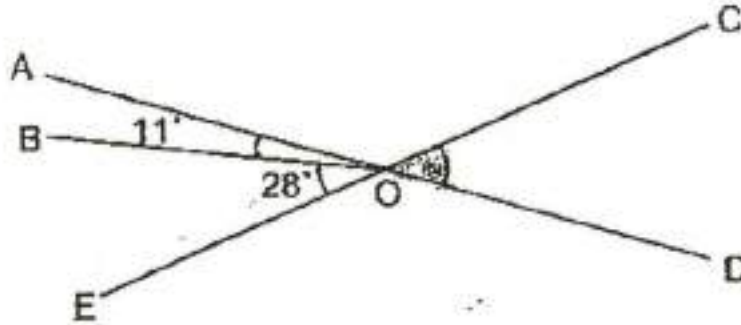In the diagram below, the letters M, A, T and H are drawn on a square grid.

Which letter has both parallel lines and perpendicular lines?

A) M

B) A

C) T

D) H

Question 3 of 55   Primary 6 Math (Prelim)   1 pt

In the figure below, AOD and COE are straight lines. $\angle AOB = 11°$ and $\angle BOE = 28°$. Find $\angle COD$.
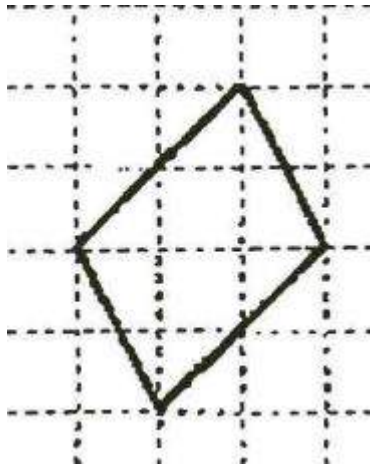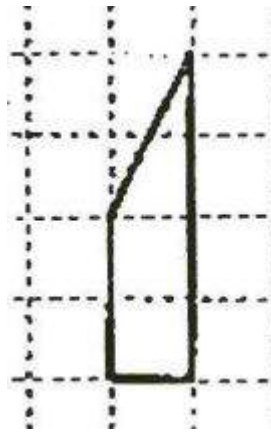

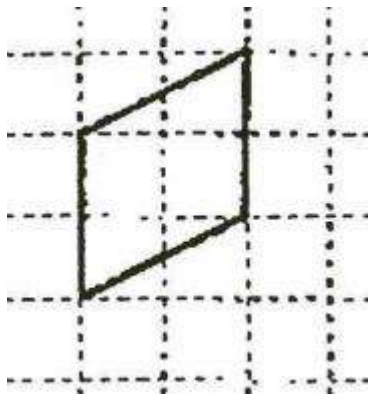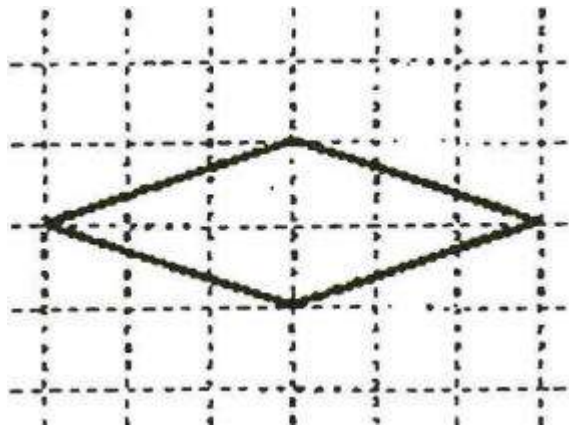A)   17º

B)   28º

C)   39º

D)   141º

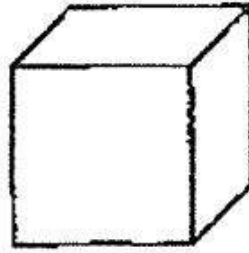**Question 4 of 55**

Primary 6 Math (Prelim)   1 pt

In the square grid below, which shape is a rhombus?

A)

B)

C)

D)

The figure below shows a cube.

Which of the following is not a net of the cube?

A)
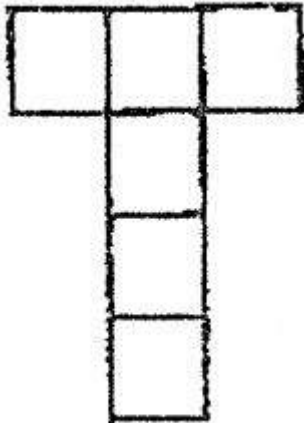
B)
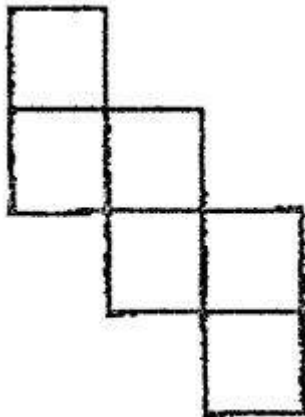
C)

○
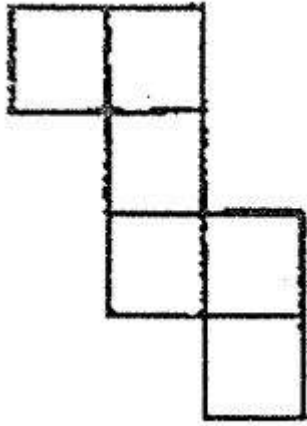
○ **D)**
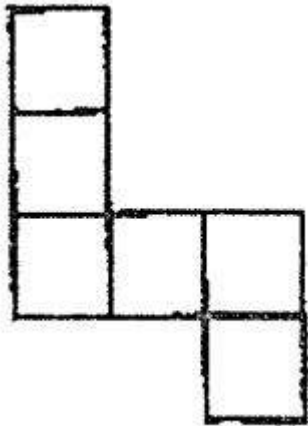
Question 6 of 55 Primary 6 Math (Prelim) 1 pt

The pie chart below shows how Joseph spent his time on a Saturday.

He spent an equal amount of time on eating and doing homework.
Which bar graph best represents the information in the pie chart?

A)

Types of Activities

Amount of time spent — Others, Sleeping, Eating, Watching TV, Doing homework

B)

Types of Activities

Amount of time spent — Others, Sleeping, Eating, Watching TV, Doing homework

C)

Types of Activities

Amount of time spent — Others, Sleeping, Eating, Watching TV, Doing homework

D)

Types of Activities

Amount of time spent — Others, Sleeping, Eating, Watching TV, Doing homework

Question 7 of 55 Primary 6 Math (Prelim) 2 pts

Arrange the following fractions from the largest to the smallest.

$$\frac{2}{7}, \quad \frac{1}{5}, \quad \frac{4}{9}, \quad \frac{2}{11}$$

A)

Largest   **Smallest**

$$\frac{1}{5}, \quad \frac{2}{7}, \quad \frac{4}{9}, \quad \frac{2}{11}$$

B)

$$\frac{2}{11}, \quad \frac{1}{5}, \quad \frac{2}{7}, \quad \frac{4}{9}$$

C)

$$\frac{4}{9}, \quad \frac{2}{11}, \quad \frac{2}{7}, \quad \frac{1}{5}$$

D)

$$\frac{4}{9}, \quad \frac{2}{7}, \quad \frac{1}{5}, \quad \frac{2}{11}$$

Question 8 of 55 | Primary 6 Math (Prelim) | 2 pts

Brian and Charles had some stickers. At first, the number of stickers Brian had was $\frac{4}{7}$ of the total number of stickers. Then, Brian sold $\frac{3}{8}$ of his stickers. Find the ratio of the number of stickers Brian had at the end to the number of stickers Charles had at the end.

- **A)** 1:03
- **B)** 1:07
- **C)** 5:06
- **D)** 5:14

Question 9 of 55 | Primary 6 Math (Prelim) | 2 pts

A thumb drive and a paper clip are placed next to a scale. Find the difference in their lengths.
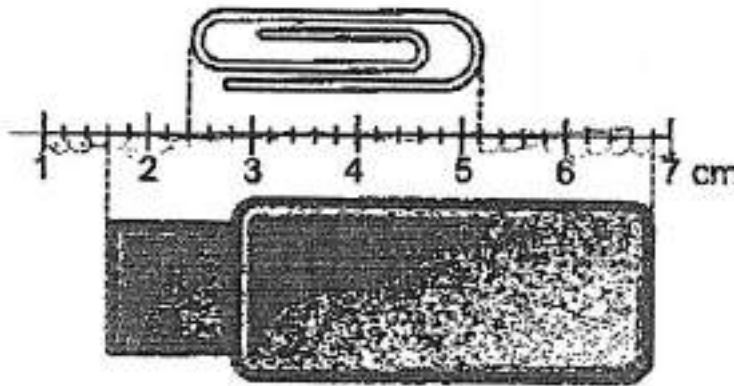
- **A)** 1.2 cm
- **B)** 1.6 cm
- **C)** 2.2 cm
- **D)** 2.4 cm

Question 10 of 55 Primary 6 Math (Prelim) 2 pts

The square grid below shows the map of a park and its landmarks. The slide is north of the tent.
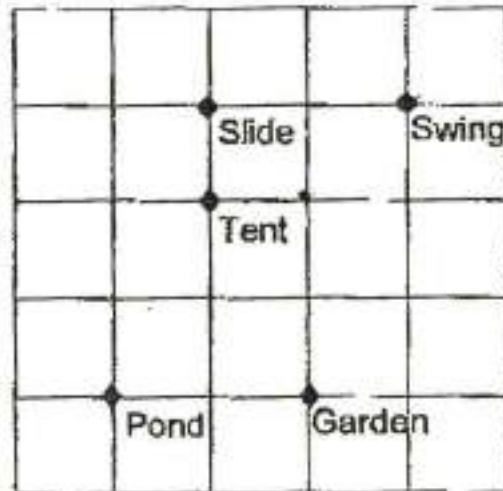
Suresh is standing at a location north of the garden and south-west of the swing. He is facing the pond. Which landmark will he be facing when he turns 45° clockwise?

A) Tent
B) Slide
C) Swing
D) Garden

Question 11 of 55 Primary 6 Math (Prelim) 2 pts

A and B are whole numbers. A has exactly 2 factors. B has exactly 4 factors. C is the product of A and B. At least how many factors does C have?

A) 5
B) 6
C) 8
D) 4

Question 12 of 55

Primary 6 Math (Prelim)   1 pt

Which digit in 31.902 is in the tenths place?

○ **A)** 1
○ **B)** 0
○ **C)** 3
○ **D)** 9

Question 13 of 55

Primary 6 Math (Prelim)   1 pt

In the number line below, what is the value of A?
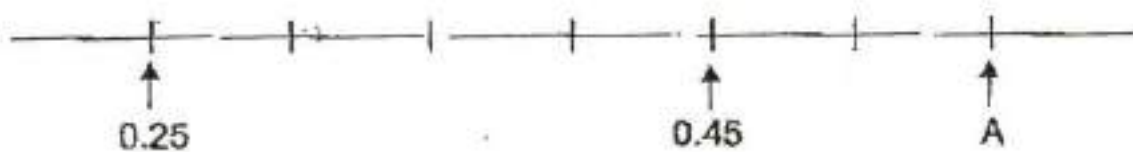
○ **A)** 0.5
○ **B)** 0.55
○ **C)** 0.8
○ **D)** 0.65

Question 14 of 55

Primary 6 Math (Prelim)   1 pt

Find the value of 18 - 2*p* + 2 x 3*p* when *p* = 4.

○ **A)** 34
○ **B)** 2
○ **C)** 96
○ **D)** 144

Question 15 of 55

Primary 6 Math (Prelim)   1 pt

Which one of the following is likely to be the length of a school bus?

○ **A)** 1.2 m
○ **B)** 12 m
○ **C)** 120 m
○ **D)** 1200 m

Question 16 of 55   Primary 6 Math (Prelim)   0 pts

Farid had $(4k + 6)$ pencils.   He bought another k pencils and packed all the pencils equally into 3 boxes.   How many pencils were there in each box?   Give your answer in terms of k in the simplest form.

(2 marks)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 17 of 55

Primary 6 Math (Prelim)   0 pts

There are 8 shaded squares in the figure below.   Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.
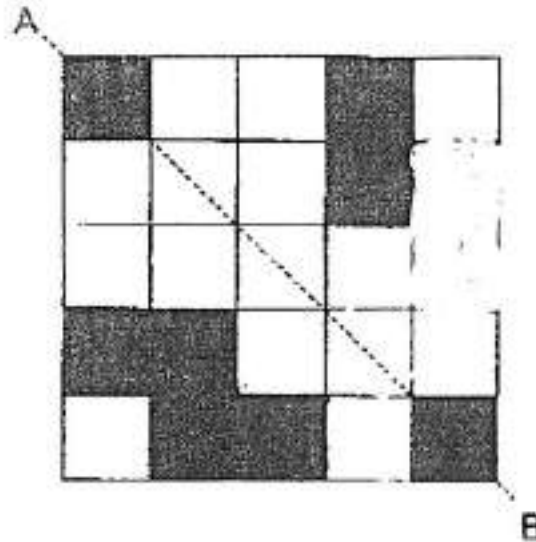

(1 mark)

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 18 of 55

Primary 6 Math (Prelim)   2 pts

A, B and C are different 2-digit numbers. Their average is 30. Find the greatest possible difference between B and C.

Question 19 of 55   Primary 6 Math (Prelim)   1 pt

Jane has $31.70. She has $0.50 less than Bala. Mr Ten has 10 times as much money as Jane.

How much money does Bala have?

Question 20 of 55   Primary 6 Math (Prelim)   1 pt

Jane has $31.70. She has $0.50 less than Bala. Mr Tan has 10 times as much money as Jane.

How much money does Mr Tan have?

Question 21 of 55   Primary 6 Math (Prelim)   2 pts

This year, ABC Sports Club had 150 members. Last year, it had 120 members. Find the percentage increase in the number of members this year.

Question 22 of 55   Primary 6 Math (Prelim)   2 pts

Jake has $y.   Kyra has $(y + 14) more than Jake.   Kyra has $68.   How much money does Jake have?

Question 23 of 55   Primary 6 Math (Prelim)   3 pts

Rectangular tanks A and B contained some water. The height of the water level in tank A was equal to that in tank B at first. Tank A had a base area of 3400 cm² and Tank B had a base area of 850 cm².
8500 cm³ of water was poured out from Tank B and the height of the water level decreased by 40% in Tank B.
Some water was added into Tank A and the height of the water level increased by 80% in Tank A.

Find the total amount of water in the two tanks in the end.

Question 24 of 55   Primary 6 Math (Prelim)   2 pts

Rectangular tanks A and B contained some water. The height of the water level in tank A was equal to that in tank B at first. Tank A had a base area of 3400 cm² and Tank B had a base area of 850 cm².
8500 cm³ of water was poured out from Tank B and the height of the water level decreased by 40% in Tank B.
Some water was added into Tank A and the height of the water level increased by 80% in Tank A.

Some water was then transferred from Tank A to Tank B without spilling until the height of the water level in both tanks was the same again. What was the height of the new water level in each tank?

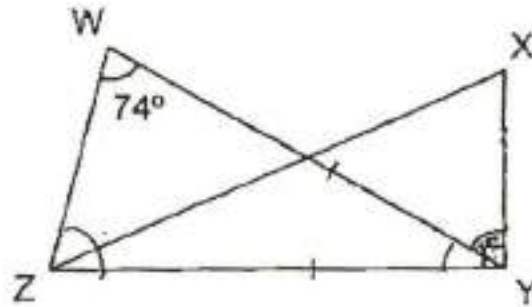## Question 25 of 55   Primary 6 Math (Prelim)   1 pt

Ze Hui had 24 marbles at first. He gave 6 marbles to his brother. What fraction of his marbles did he give to his brother? Express your answer as a fraction in its simplest form.

Question 26 of 55 Primary 6 Math (Prelim) 2 pts

In the figure below, WZY and XYZ are triangles. $\angle YWZ = 74°$, $\angle XYZ = 90°$ and WY = YZ. Find $\angle WYX$.

Question 27 of 55   Primary 6 Math (Prelim)   0 pts

In the square grid below, two sides of a parallelogram have been drawn.
Each side is drawn by joining dots on the square grid with a straight line.
In the same way,

i) complete the drawing of the parallelogram

ii) draw a trapezium in the square grid with the same perimeter as the parallelogram such
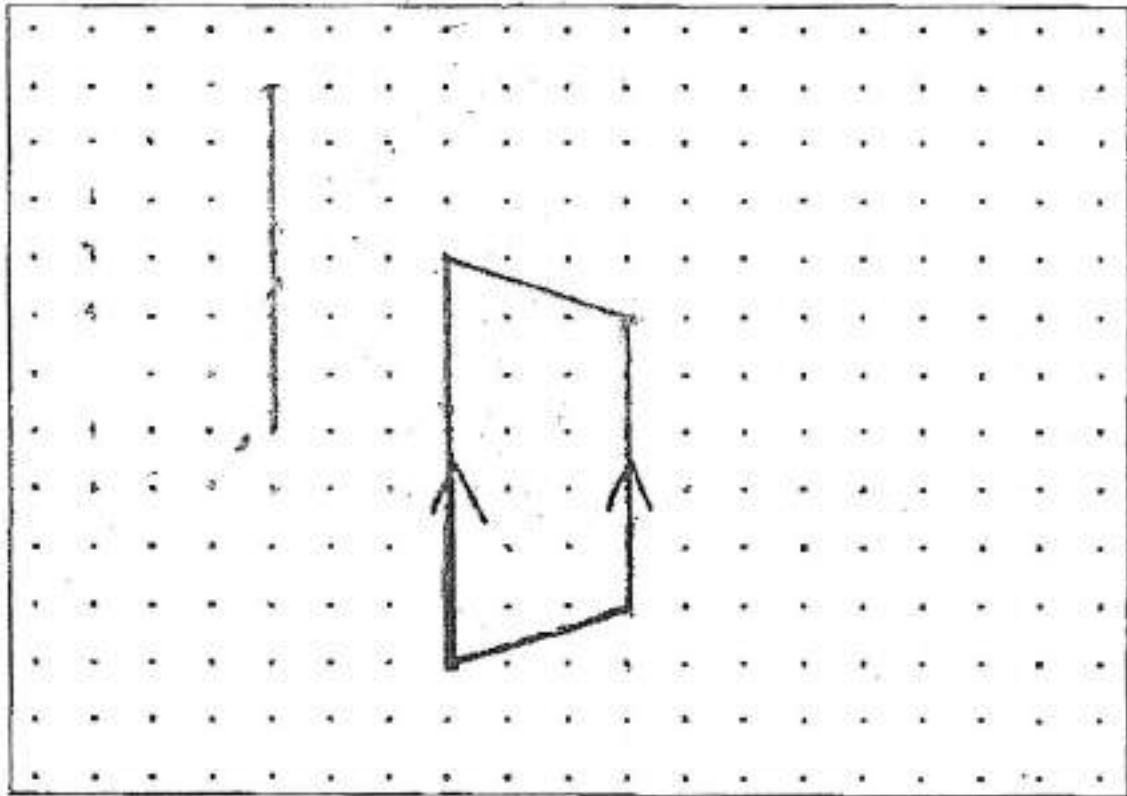that it does not overlap with the parallelogram.

(2 marks)
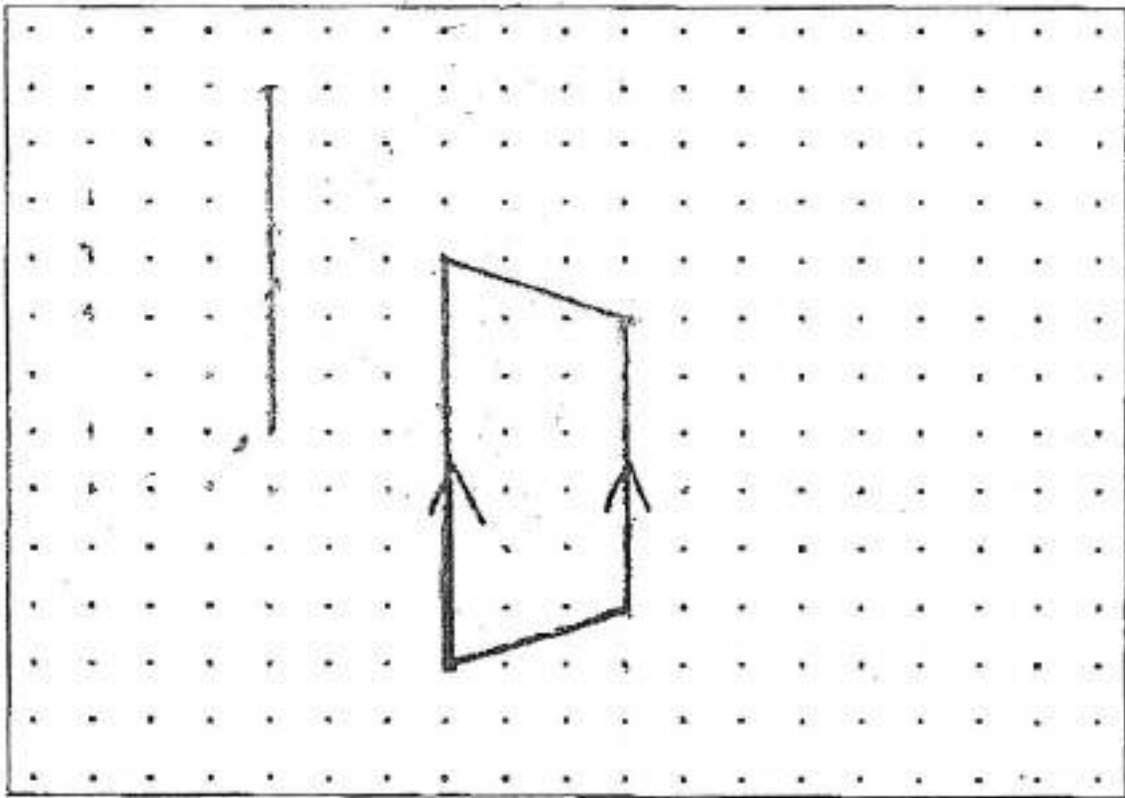
*This question is designed for extended answers that parent/ teacher will have to assign and
guide child to attempt after the test has been completed.*

*Grading: This question type is not graded on this system and will not affect the final score as
it was designed in such a way that it requires manual assistance.*
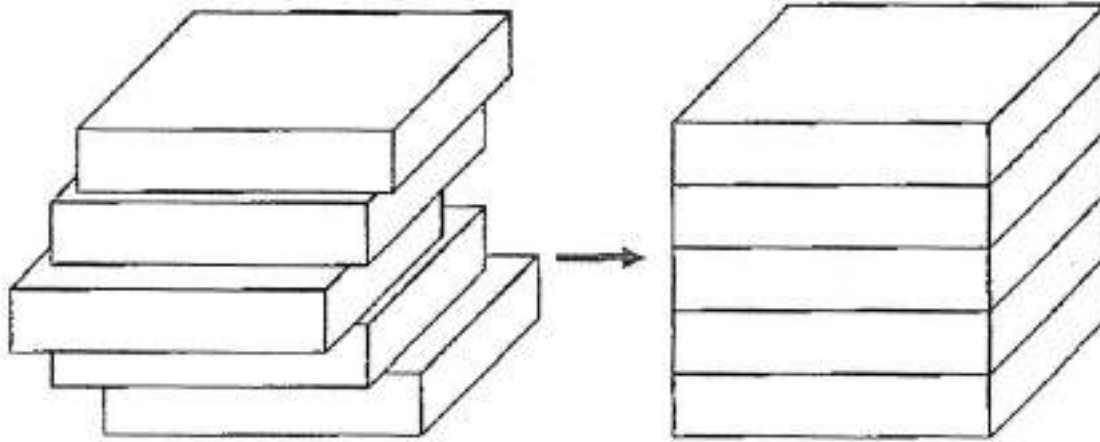
Measure and write down the size of an obtuse angle in the parallelogram.

Question 29 of 55   Primary 6 Math (Prelim)   4 pts

Jonathan had five identical cuboids.   The volume of each cuboid is
675 cm³. He stacked the five cuboids on top of one another neatly to
form a big cube as shown below.

He then took one of the five cuboids and dipped it into a pail of red
paint.   Find the area of the cuboid that was painted red.

Question 30 of 55   Primary 6 Math (Prelim)   2 pts

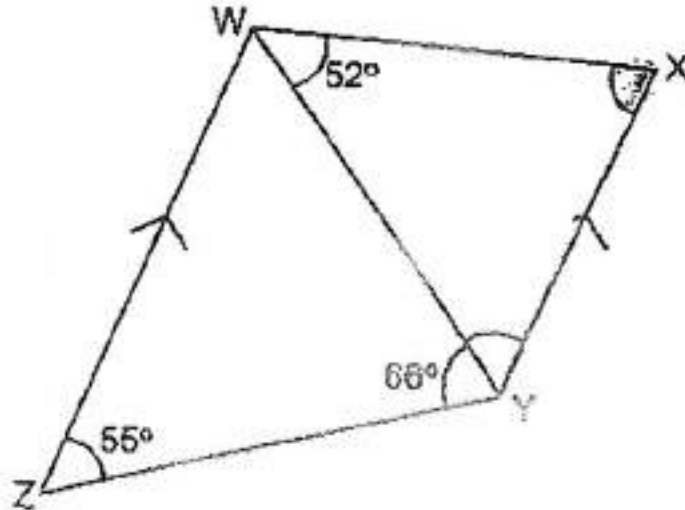The table below shows the carpark charges for a shopping mall.

CARPARK CHARGES	
7 a.m. to 6 p.m.	$0.60 for every 30 min

Mr Raj parked his car from 8.30 a.m. to 12 noon in the shopping mall.
How much did he pay?

Question 31 of 55   Primary 6 Math (Prelim)   2 pts

In the figure below, WXYZ is a trapezium. WZ is parallel to XY.
∠XWY = 52°, ∠WYZ = 66° and ∠WZY = 55°. Find ∠WXY.

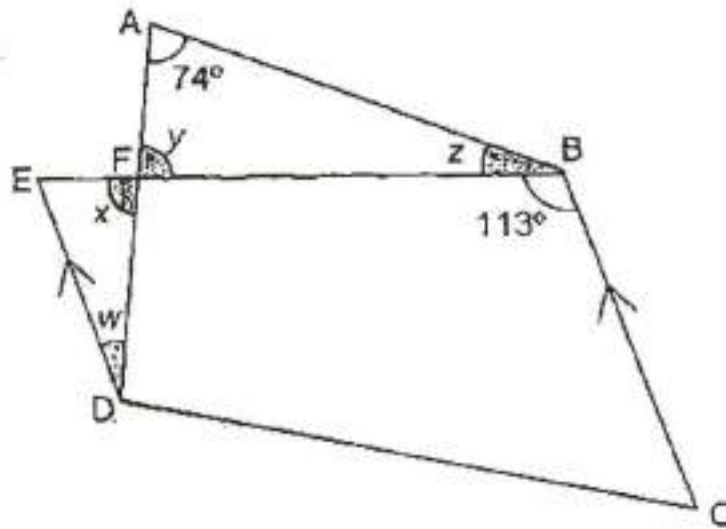**Question 32 of 55**   Primary 6 Math (Prelim)   2 pts

Jerry had 110 buns. He ate 2 buns and packed the remaining buns equally into 6 packets. How many buns were there in each packet?

In the figure below, EBCD is a trapezium.   ED is parallel to BC.
∠FAB = 74° and ∠EBC = 113°.   Find the sum of ∠w, ∠x, ∠y and ∠z.

Question 34 of 55　　　　　　　　　　　Primary 6 Math (Prelim)　　3 pts

In the figure below, ABCD is a square and ECD is an isosceles triangle.
$\angle DEC = 78°$ and $\angle ABE = 38°$.　Find $\angle BEC$.
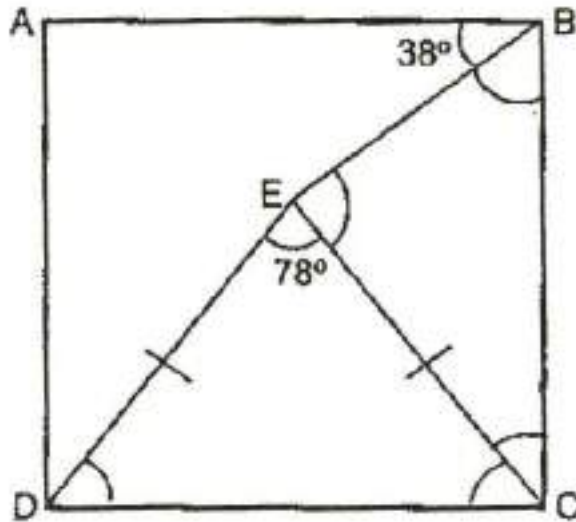
Question 35 of 55　　　　　　　　　　　Primary 6 Math (Prelim)　　2 pts

A bicycle cost $617.10 after a discount of 15%. What was the price of the bicycle before the discount?

Question 36 of 55　　　　　　　　　　　Primary 6 Math (Prelim)　　1 pt

The distance between two points is 267 cm. Express this distance in metres.

The line graph below shows the number of pens sold in a bookstore each month from July to December in 2017.
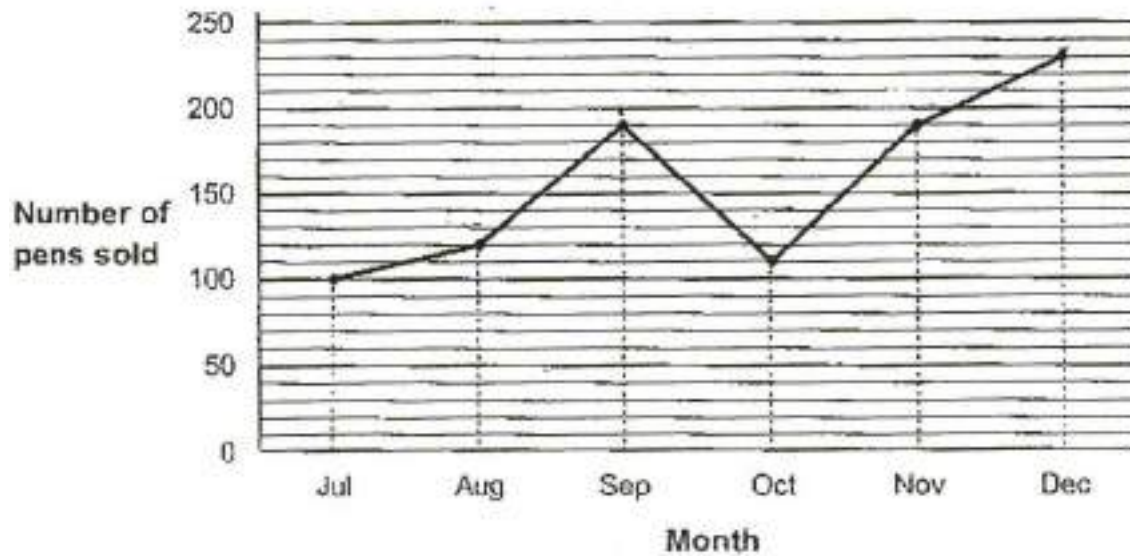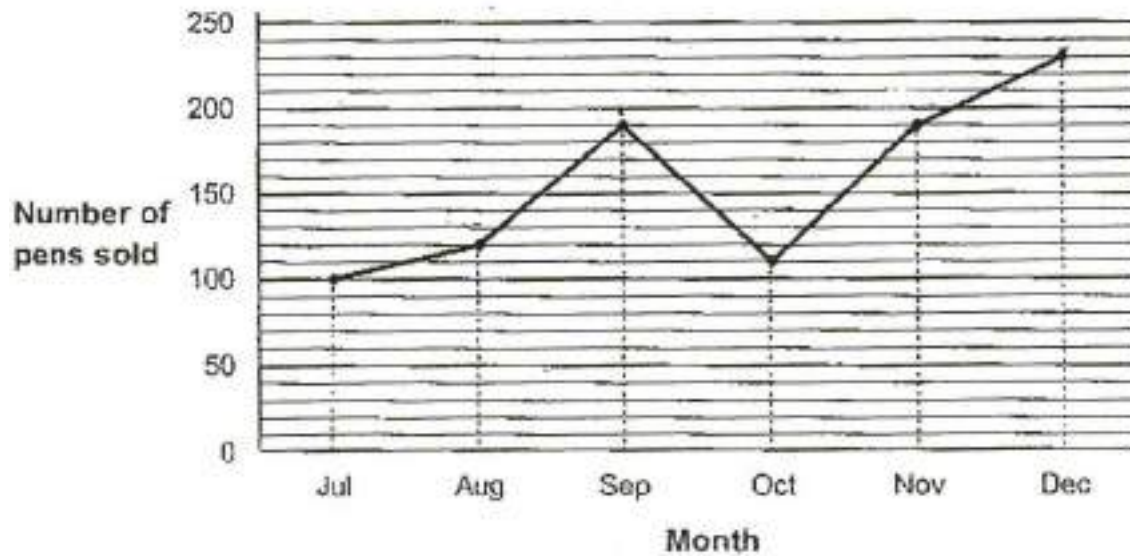

In which two months were the number of pens sold the same?

Question 38 of 55   Primary 6 Math (Prelim)   2 pts

The line graph below shows the number of pens sold in a bookstore each month from July to December in 2017.

Find the total number of pens sold from August to November.

Question 39 of 55 Primary 6 Math (Prelim) 1 pt

The line graph below shows the number of pens sold in a bookstore each month from July to December in 2017.

The statement below is either true, false or not possible to tell from the information given in the line graph. Choose the correct answer for the statement below.

Statement: The increase in the number of pens sold from June to July was less than the increase in the number of pens sold from August to September.

A) TRUE

B) FALSE

C) Not Possible to Tell

Question 40 of 55   Primary 6 Math (Prelim)   1 pt

The line graph below shows the number of pens sold in a bookstore each
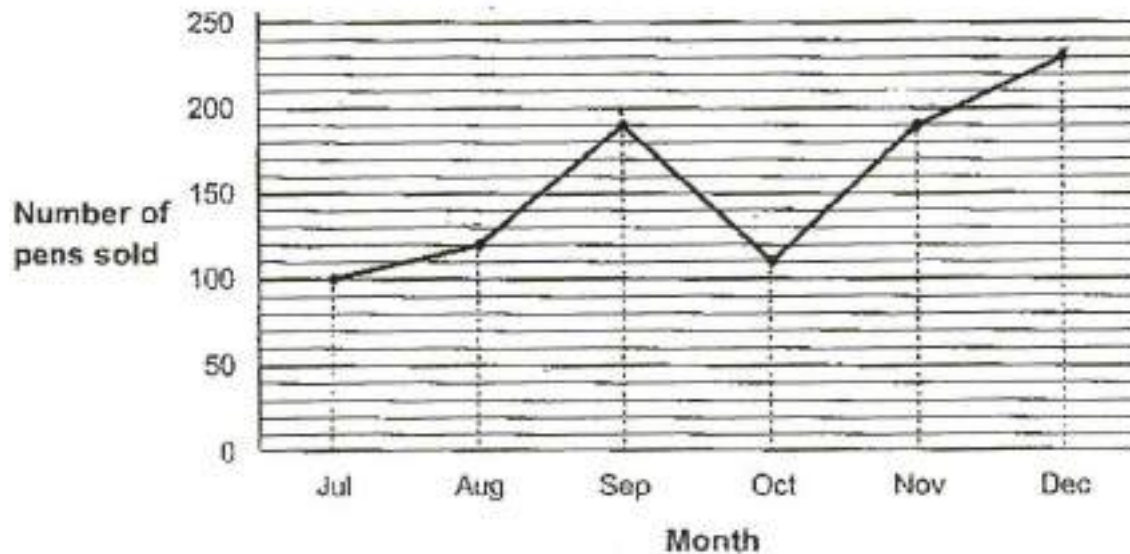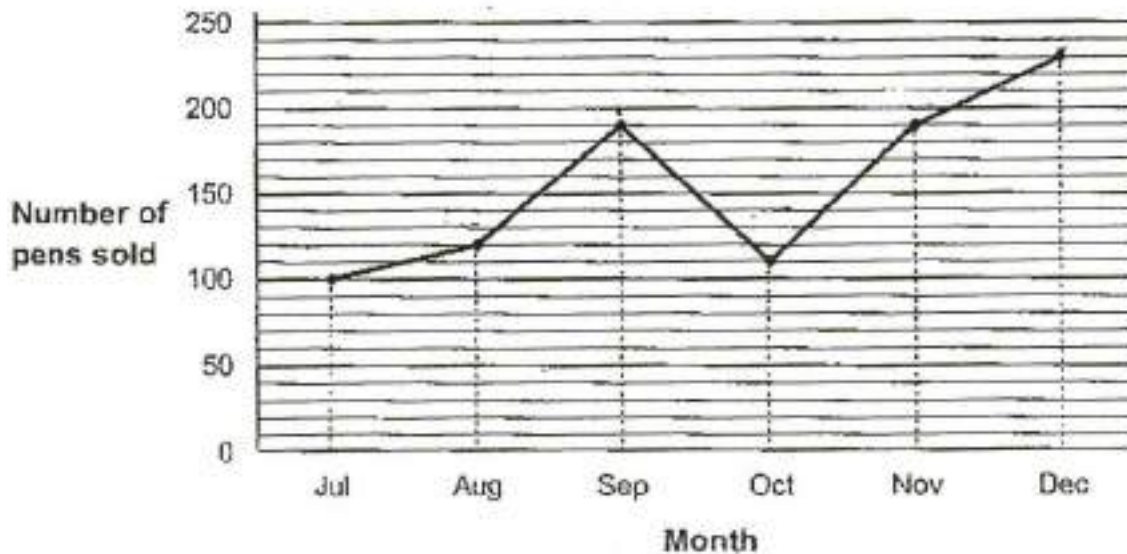month from July to December in 2017.

The statement below is either true, false or not possible to tell from the information given in
the line graph. Choose the correct answer for the statement below.

Statement: The number of pens sold in July was three times the number of pens sold in May.

○ **A)** TRUE

○ **B)** FALSE

○ **C)** Not Possible to Tell

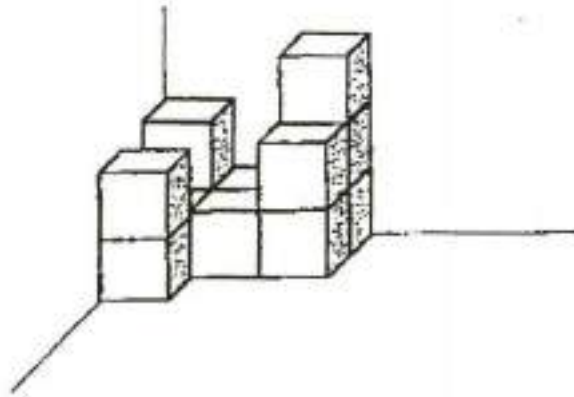**Question 41 of 55**   Primary 6 Math (Prelim)   2 pts

Mrs Tay baked some cupcakes. $\frac{1}{4}$ of the cupcakes that she had baked
were vanilla cupcakes, $\frac{1}{5}$ of the remaining cupcakes were lychee
cupcakes and the rest were chocolate cupcakes.   She baked 36
chocolate cupcakes.   How many cupcakes did she bake in total?

Question 42 of 55   Primary 6 Math (Prelim)   1 pt

The figure below is made up of identical cubes.   How many cubes are
there in the figure?

Question 43 of 55   Primary 6 Math (Prelim)   2 pts
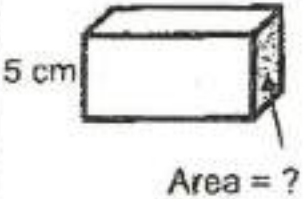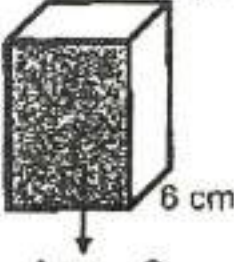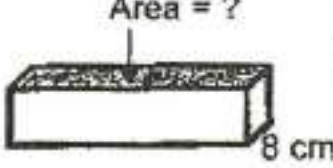
Find the perimeter of the isosceles triangle shown below.

$\dfrac{3}{5}$ m

$\dfrac{5}{7}$ m
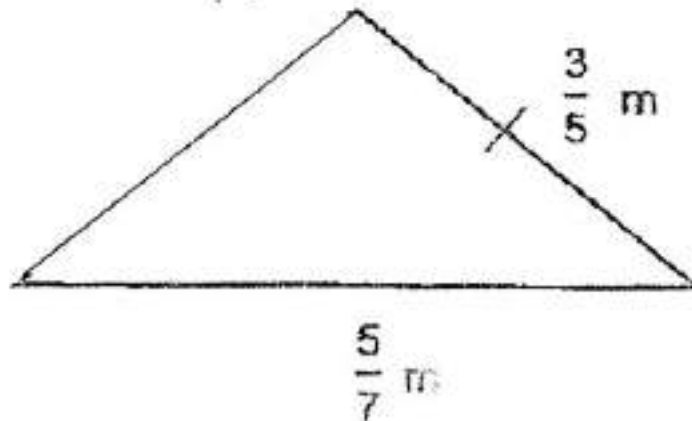
In which of the following can the area of the shaded face of the cuboid be found?

Volume = 100 cm³	Volume = 240 cm³	Volume = 400 cm³
5 cm Area = ?	6 cm Area = ?	Area = ? 8 cm
Cuboid A	Cuboid B	Cuboid C

Ans: Cuboid _____

Question 45 of 55   Primary 6 Math (Prelim)   3 pts

Mr Lee has a total of 36 coins. They consist of only 20-cent, 50-cent and $1 coins. He has twice as many $1 coins as 20-cent coins. The total value of the 50-cent coins is $4.40 more than the total value of the 20-cent coins. How many $1 coins does Mr Lee have?

Question 46 of 55   Primary 6 Math (Prelim)   3 pts

Town P was exactly halfway between Town M and Town N. At 08 00, Nancy started travelling from Town M to Town N while Seo Joon started travelling from Town N to Town M. Nancy travelled at 50 m/min while Seo Joon travelled at 80 m/min. They did not change their speeds throughout the journey. When they passed each other, their distance from Town P was 120 m. At what time did Seo Joon reach Town M?

Question 47 of 55   Primary 6 Math (Prelim)   2 pts

How many common factors do 16 and 20 have?

Question 48 of 55   Primary 6 Math (Prelim)   3 pts

Ashley and Wei Shen have the mass of 43.3 kg each. The mass of Bernadette is 1.8 kg less than the average mass of Ashley, Wei Shen and Bernadette. Find the total mass of Ashley, Wei Shen and Bernadette.

Question 49 of 55   Primary 6 Math (Prelim)   2 pts

The perimeter of rectangle ABCD is 12 cm more than that of rectangle AMND. The area of rectangle MBCN is 54 cm².
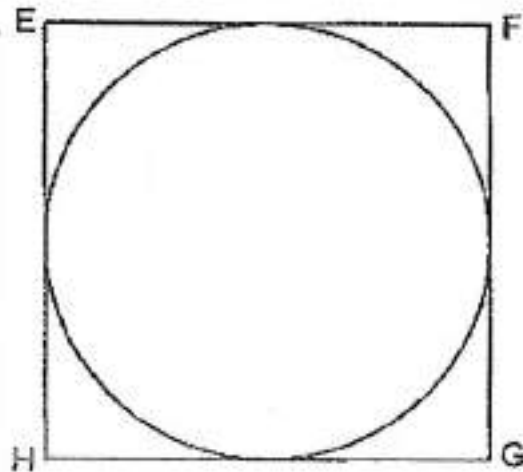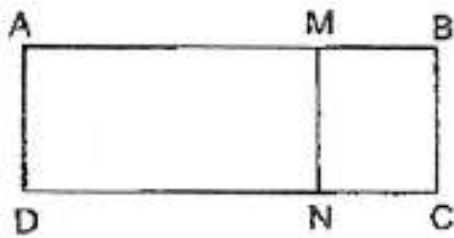
Find the length of AD.

Question 50 of 55   Primary 6 Math (Prelim)   3 pts

The perimeter of rectangle ABCD is 12 cm more than that of rectangle AMND. The area of rectangle MBCN is 54 cm².

The perimeter of square EFGH is 12 times the length of AD.

Use the calculator value of π to find the area of the circle which touches the 4 sides of square EFGH, correct to 1 decimal place.

Question 51 of 55   Primary 6 Math (Prelim)   2 pts

Mdm Ler, Mr Chan and Mdm Ng bought some blue and some yellow highlighters. Each blue highlighter cost $0.30 more than each yellow highlighter. The table below shows number of highlighters each of them bought for each colour.
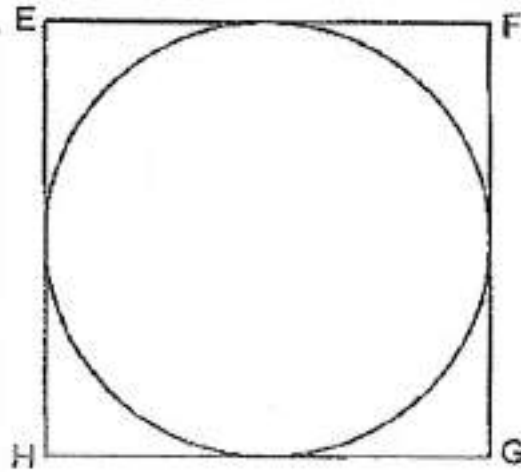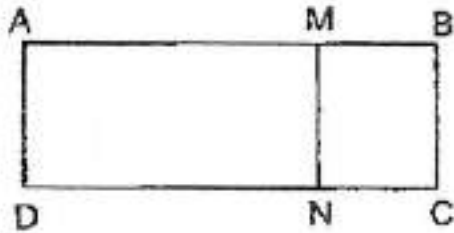
	Number of blue highlighters bought	Number of yellow highlighters bought
Mdm Ler	10	17
Mr Chan	7	20
Mdm Ng	12	15

Mdm Ng spent an equal amount of money on the blue highlighters and on the yellow highlighters. How much did each blue highlighter cost?

Question 52 of 55   Primary 6 Math (Prelim)   2 pts

Mdm Ler, Mr Chan and Mdm Ng bought some blue and some yellow highlighters. Each blue highlighter cost $0.30 more than each yellow highlighter. The table below shows number of highlighters each of them bought for each colour.

	Number of blue highlighters bought	Number of yellow highlighters bought
Mdm Ler	10	17
Mr Chan	7	20
Mdm Ng	12	15

Find the difference between Mdm Ler's total spending on the highlighters and Mr Chan's total spending on the highlighters.

Question 53 of 55   Primary 6 Math (Prelim)   4 pts

At a florist, there was a total of 3616 orchids, tulips and roses.   The ratio of the number of orchids to the number of tulips was 3 : 5.   After 40% of the orchids, $\frac{1}{5}$ of the tulips and 25% of the roses were sold, there were 2644 flowers left in the end.   How many orchids were there in the florist at first?

Question 54 of 55   Primary 6 Math (Prelim)   2 pts

A tank is empty at first. It takes 12 minutes to fill up the tank completely with Tap A alone.   It takes 8 minutes to fill up the tank completely with Tap B alone.   Starting with an empty tank, how long does it take for both taps together to fill half of the tank?

Question 55 of 55   Primary 6 Math (Prelim)   2 pts

In the figure below, WXYZ is a square. The shaded parts A and B are two squares with different areas. All the corners of squares A and B lie either on the sides of square WXYZ or on the lines WO and XZ. What fraction of the square WXYZ is shaded?