

Test: Primary 6 Math (Term 4) - Catholic High (Y0)

Points: 55 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

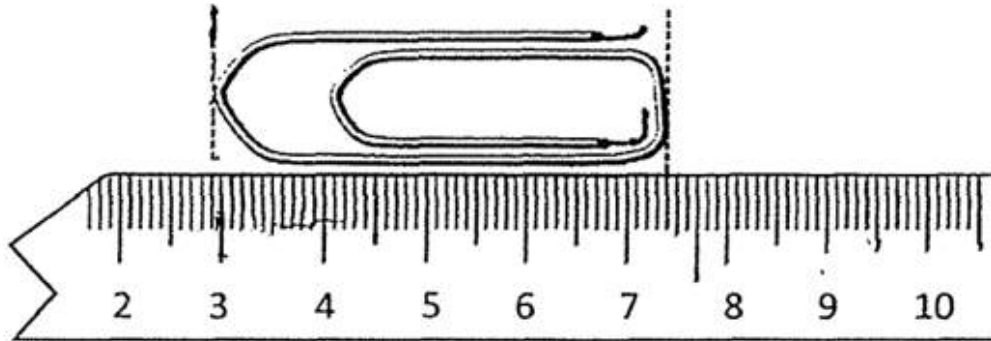
In 54.32, what does the digit 3 stand for?

- _____
- A)** 3 ones
- B)** 3 tens
- C)** 3 tenths
- D)** 3 hundredths

Question 2 of 60

Primary 6 Math (Prelim) 1 pt

What is the length of the paper clip?



- A) 4.4.cm
- B) 4.5.cm
- C) 5.5.cm
- D) 7.5.cm

Question 3 of 60

Primary 6 Math (Prelim) 1 pt

Which of the following is the likely mass of a handheld mobile phone?



- A) 20g
- B) 2g
- C) 200g
- D) 2000g

Question 4 of 60

Primary 6 Math (Prelim) 1 pt

Suresh paid \$15 for 30 cookies. How much did each cookie cost?

- A) 5 cent
- B) 2 cent
- C) 20 cent
- D) 50 cent

Question 5 of 60

Primary 6 Math (Prelim) 1 pt

Mr Ong arranges 18 blue chairs and 24 green chairs in rows. Each row has an equal number of chairs of the same colour. What is the greatest number of chairs that Mr Ong arrange in each row?

- A) 6
- B) 7
- C) 3
- D) 14

Question 6 of 60

Primary 6 Math (Prelim) 1 pt

What is the price of a laptop after adding 7% GST?



- A) \$1395
- B) \$1493
- C) \$1507
- D) \$1605

Question 7 of 60

Primary 6 Math (Prelim) 1 pt

A group of pupils ran in a race. The table shows the number of pupils with the following times clocked in the race.

Time clocked (s)	150	151	153	155	157	158	160
Number of pupils	2	3	2	7	3	2	2

Prizes were given to the top 7 pupils. Bryan won a prize. What was the slowest time he could have clocked?

- A) 150s
- B) 153s
- C) 155s
- D) 157s

Question 8 of 60

Primary 6 Math (Prelim) 1 pt

$\frac{3}{10}$ of the seats in an aeroplane are business class seats while the rest are economy class seats. $\frac{3}{5}$ of the economy class seats are occupied.

What fraction of all the seats in the aeroplane are unoccupied economy class seats?

A)

$$\frac{2}{5} \times \frac{7}{10}$$

B)

$$\frac{2}{5} \times \frac{3}{10}$$

C)

$$\frac{3}{5} \times \frac{3}{10}$$

D)

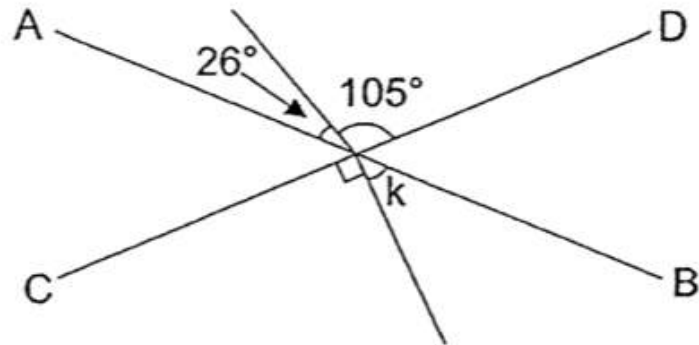
$$\frac{3}{5} \times \frac{7}{10}$$

Question 9 of 60

Primary 6 Math (Prelim)

1 pt

In the figure, AB and CD are straight lines. Find $\angle k$.

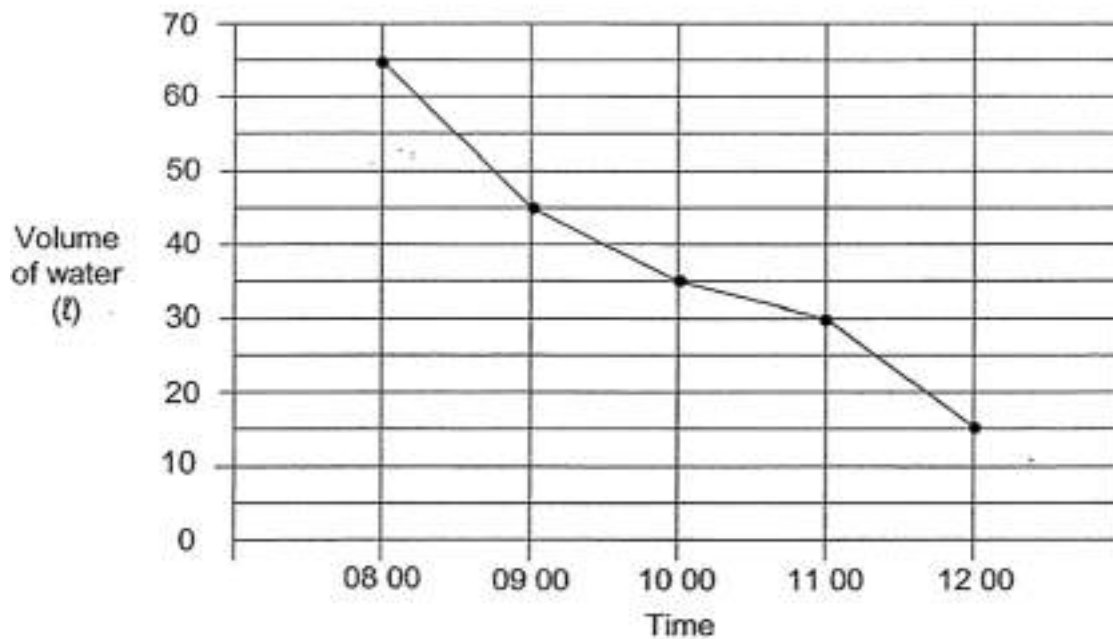


- A) 16
- B) 26
- C) 41
- D) 49

Question 10 of 60

Primary 6 Math (Prelim) 1 pt

A tank was filled with 65 ℓ of water at 08 00. Water flowed out of the tank from 08 00 to 12 00. The line graph shows the volume of water in the tank from 08 00 to 12 00.



During which one-hour period was the decrease in volume of water the greatest?

- A) Between 08 00 and 09 00
- B) Between 09 00 and 10 00
- C) Between 10 00 and 11 00
- D) Between 11 00 and 12 00

Question 11 of 60

Primary 6 Math (Prelim)

1 pt

Arrange these distances from the shortest to the longest.

4.23 km

 $4\frac{1}{5}$ km

4 km 25 m

 A)Shortest

4.23 km

,

 $4\frac{1}{5}$ km

,

Longest

4 km 25 m

 B)

4 km 25 m

,

 $4\frac{1}{5}$ km

,

4.23 km

 C) $4\frac{1}{5}$ km

,

4 km 25 m

,

4.23 km

 D) $4\frac{1}{5}$ km

,

4.23 km

,

4 km 25 m

Question 12 of 60

Primary 6 Math (Prelim) 1 pt

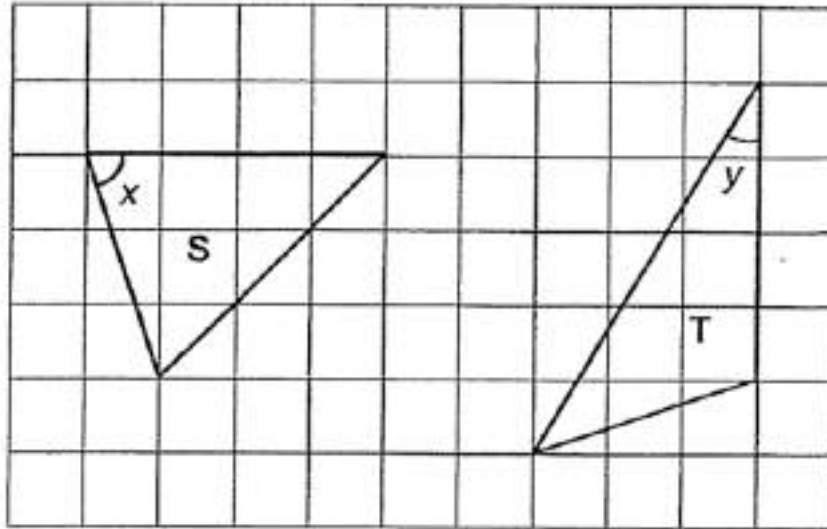
Lin, Mat and Ned went for a run of different distances L, M and N respectively. During the run, they covered an equal distance before they stopped for a water break. At that time, Lin had completed $\frac{1}{2}$ of distance L, Mat had completed $\frac{2}{3}$ of distance M and Ned had completed $\frac{3}{5}$ of distance N. What is the ratio of the distance L to distance M to distance N?

- A) 1:2:3
- B) 2:3:5
- C) 12:9:10
- D) 15:20:18

Question 13 of 60

Primary 6 Math (Prelim) 1 pt

Two figures S and T are shown in the square grid below.



Which of the following statement(s) is/are true?

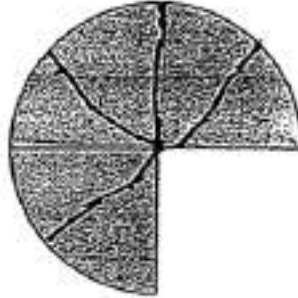
- A. $\angle x + \angle y = 90^\circ$
- B. Figure S has the same area as Figure T.
- C. Figure S has the same perimeter as Figure T.

-
- A) B only
 - B) C only
 - C) A and B only
 - D) A and C only

Question 14 of 60

Primary 6 Math (Prelim) 1 pt

The figure is made up of a semicircle and a quarter circle of the same radius 4 cm. What is the perimeter of the shaded figure?
Give your answer in terms of π .



- A) 6π cm
- B) 12π cm
- C) $(6\pi+8)$ cm
- D) $(6\pi+12)$ cm

Question 15 of 60

Primary 6 Math (Prelim) 1 pt

Mdm Loke made $\frac{5}{6}$ ℓ of drink. She poured the drink into as many cups of $\frac{1}{3}$ ℓ as possible and had some drink left. What was the volume of the drink left?

 A)

$$\frac{5}{12} \text{ ℓ}$$

 B)

$$\frac{1}{2} \text{ ℓ}$$

 C)

$$\frac{1}{3} \text{ ℓ}$$

 D)

$$\frac{1}{6} \text{ ℓ}$$

Question 16 of 60

Primary 6 Math (Prelim) 1 pt

Express 0.7% as a fraction

Question 17 of 60

Primary 6 Math (Prelim)

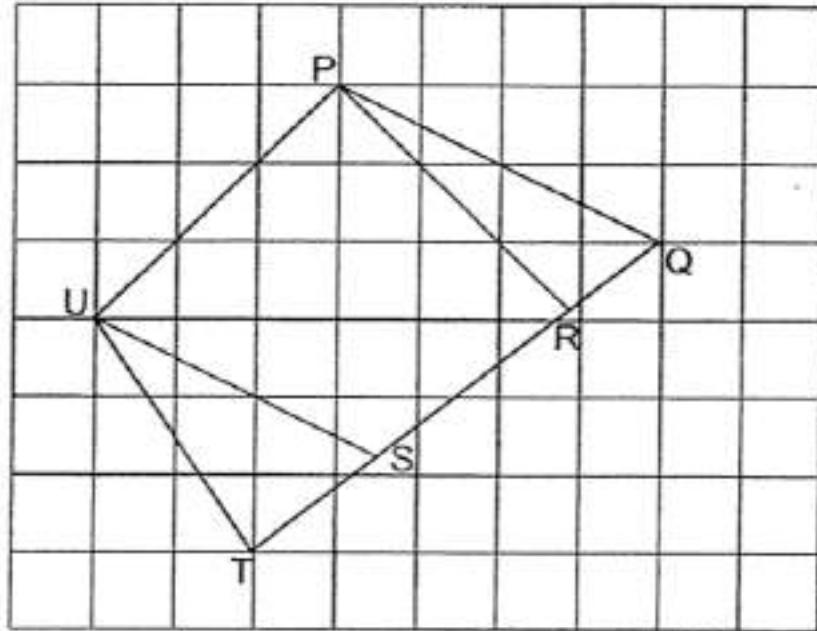
1 pt

Find the value of $\frac{10k}{4} - 2k + 3$ when $k = 10$.

Question 18 of 60

Primary 6 Math (Prelim) 1 pt

Refer to the figure below to answer questions 19 and 20.



Name the two lines that are parallel to each other.

- A) UP
- B) PQ
- C) PR
- D) US
- E) UT
- F) TS
- G) TR
- H) RQ
- I) TQ
- J) SR

Question 19 of 60

Primary 6 Math (Prelim) 1 pt

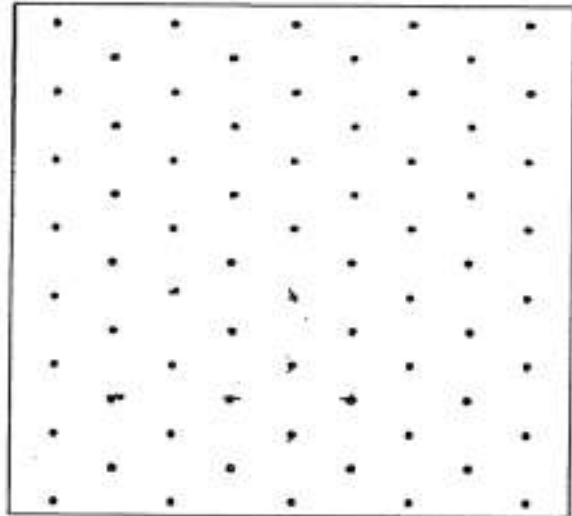
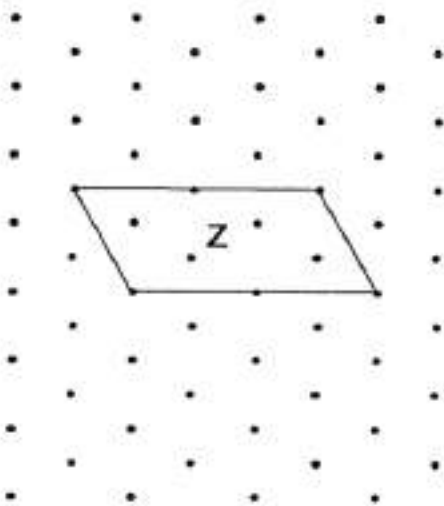
Name the two lines that are perpendicular to each other

- A) UP
- B) PQ
- C) PR
- D) US
- E) UT
- F) TS
- G) TR
- H) TQ
- I) SR
- J) RQ

Question 20 of 60

Primary 6 Math (Prelim) 0 pts

Draw an equilateral triangle with the same area and perimeter as Figure Z in the box provided.

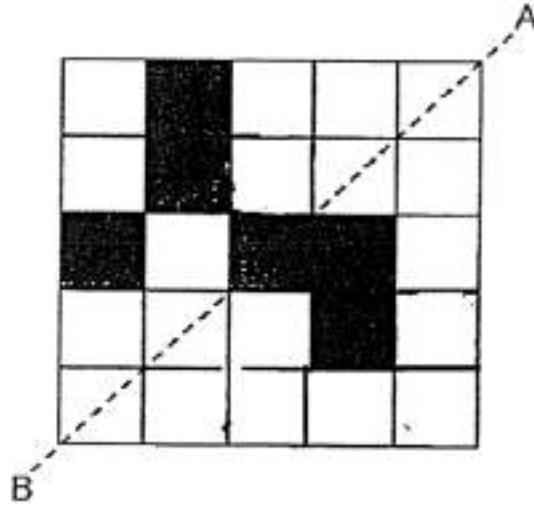


Please type "done" to proceed to the next question

Question 21 of 60

Primary 6 Math (Prelim) 0 pts

There are 6 shaded squares in the figure. Shade 3 more squares to form a symmetric figure with AB as the line of symmetry.



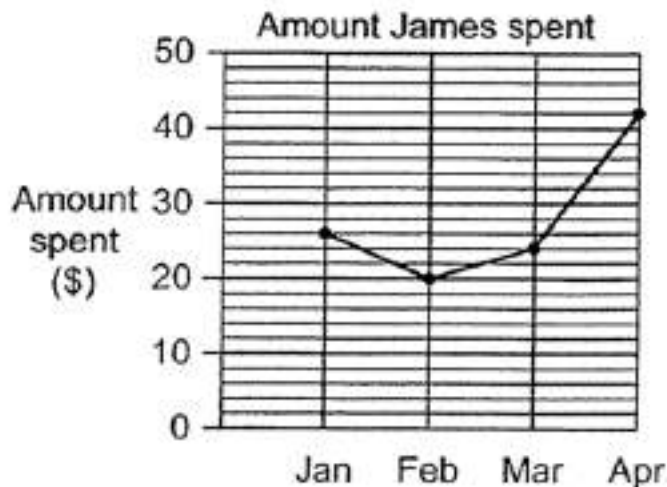
Please type "done" to proceed to the next question

Question 22 of 60

Primary 6 Math (Prelim) 1 pt

James received a fixed amount of allowance from his parents each month. Every month, James spent some of his allowance and saved the rest of the allowance in his savings box.

The graph shows the amount of money he spent each month.



a) In which month did he save the most of his allowance in his savings box?

- A) Jan
- B) Feb
- C) Mar
- D) April

Question 23 of 60

Primary 6 Math (Prelim) 1 pt

b) In April, $\frac{3}{4}$ of the amount James spent was on food. How much did he spend on food?

Question 24 of 60

Primary 6 Math (Prelim) 1 pt

In 1 minute, Machine A can pack 3 boxes of biscuits while Machine B can pack 4 boxes of biscuits. Both machines started packing at 12.50pm. At what time will both machines pack 105 boxes of biscuits in total? Leave your answer in the 24 hour clock

Question 25 of 60

Primary 6 Math (Prelim) 1 pt

Samantha wanted to fill 24 similar bottles completely with the drink she made but found that she needed an additional 3.1L of the drink. Instead, she filled 18 similar bottles and had 5.3L of the drink left. What was the capacity of one such bottle?

Question 26 of 60

Primary 6 Math (Prelim) 1 pt

The table shows the charges for fishing rod rental at a fishing pond.

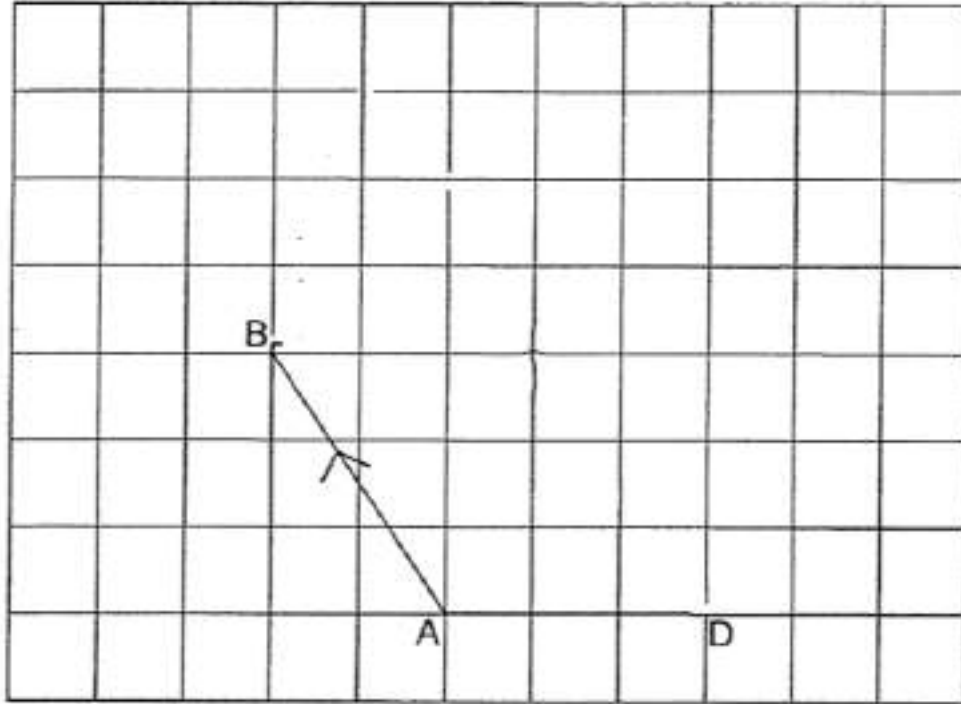
FISHING ROD RENTAL	
For the first hour	\$8
For every additional $\frac{1}{2}$ hour	\$3

Tim has \$32 and wants to rent a fishing rod. What is the greatest number of hours Tim can rent the fishing rod for?

Question 27 of 60

Primary 6 Math (Prelim) 0 pts

In the square grid below, AB and AD are two sides of a trapezium ABCD. AB is parallel to CD and the length of CD is twice the length of AB. Complete the trapezium by drawing the other two sides.



Please type "done" to proceed to the next question

Question 28 of 60

Primary 6 Math (Prelim) 1 pt

Luke needed some piece of tape, each of length 8cm, to seal some boxes. He bought 3 rolls of tape measuring 100cm each. What was the greatest number of 8cm tapes that Luke could cut from the 3 rolls of tape?

Question 29 of 60

Primary 6 Math (Prelim) 1 pt

John had \$60 more than Kurt at first. Kurt gave \$12 to John. John then had 3 times as much money as Kurt. How much money did Kurt have in the end?

Question 30 of 60

Primary 6 Math (Prelim) 1 pt

Kevin cuts a square paper along the dotted lines as shown in Figure 1 to get 3 identical rectangular pieces of paper. Rectangle ABCD in Figure 2 is one such rectangular paper with a perimeter of 56 cm. What is the length of one side of the square paper in Figure 1?

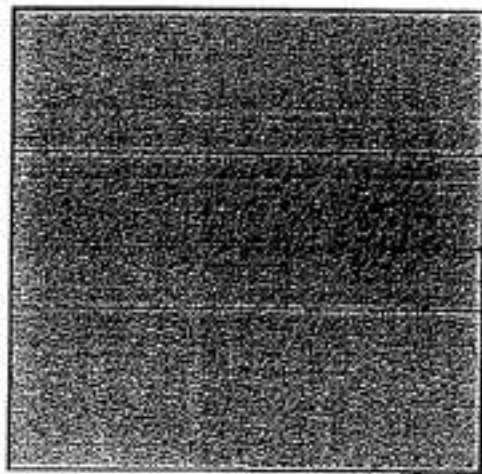


Figure 1

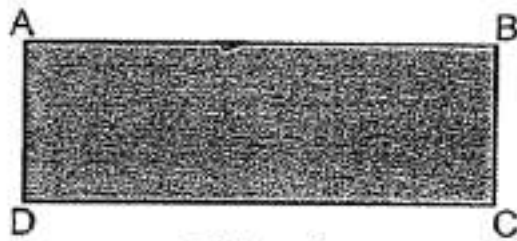


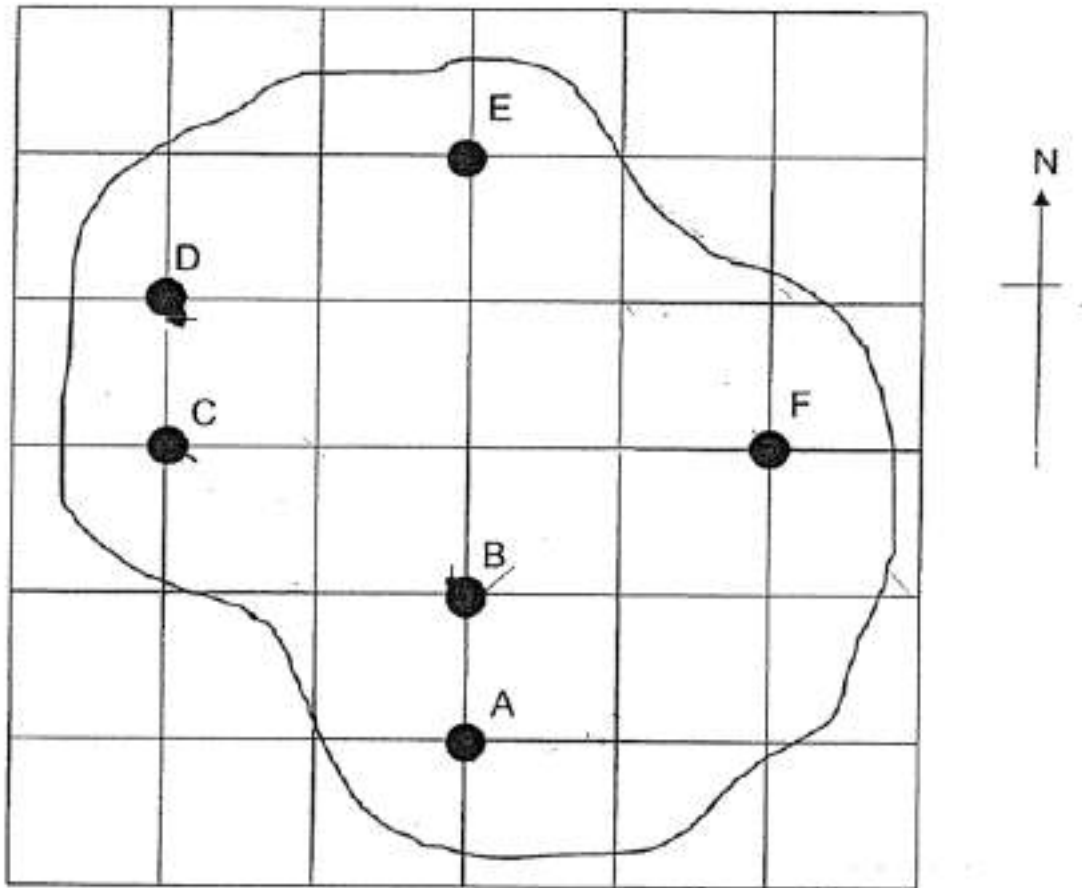
Figure 2

Question 31 of 60

Primary 6 Math (Prelim)

1 pt

The square grid shows the position of points A, B, C, D, E and F.



a) In which direction is point A from point C?

Question 32 of 60

Primary 6 Math (Prelim) 1 pt

b) Jamie stood at one of the points facing point B. After she turned 45 anti-clockwise, she faced point . Which point was Jamie at before she turned?

- A) A
- B) B
- C) C
- D) D
- E) E

Question 33 of 60

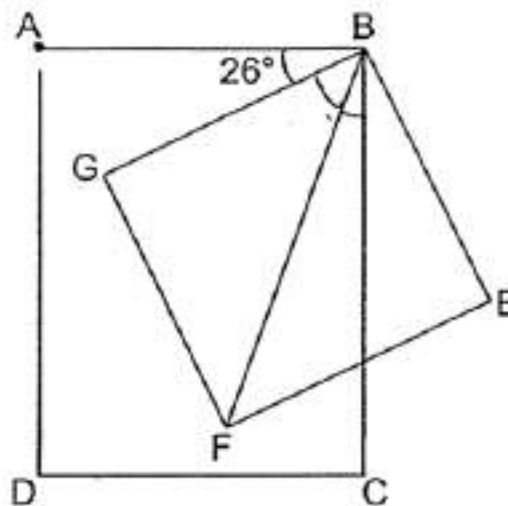
Primary 6 Math (Prelim) 1 pt

Penny had 16 twenty-cent coins and 20 fifty cent coins. Richard had as many coins as Penny but had \$2.10 less. How many twenty cent coins did Richard have?

Question 34 of 60

Primary 6 Math (Prelim) 1 pt

In the figure, ABCD is a rectangle. BEFG is a square and $\angle ABG = 26^\circ$. Find $\angle FBC$.

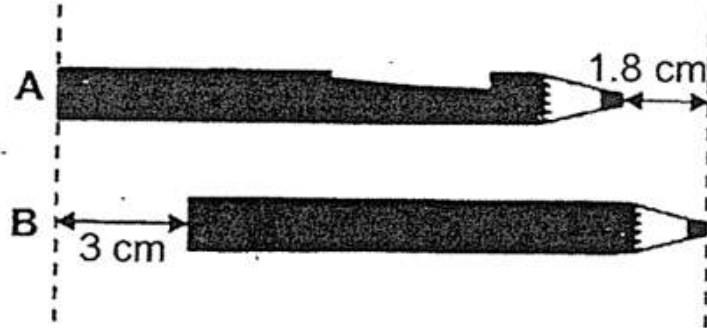


Question 35 of 60

Primary 6 Math (Prelim) 1 pt

The length of pencil B is $\frac{9}{10}$ the length of pencil A.

Find the length of pencil A.

**Question 36 of 60**

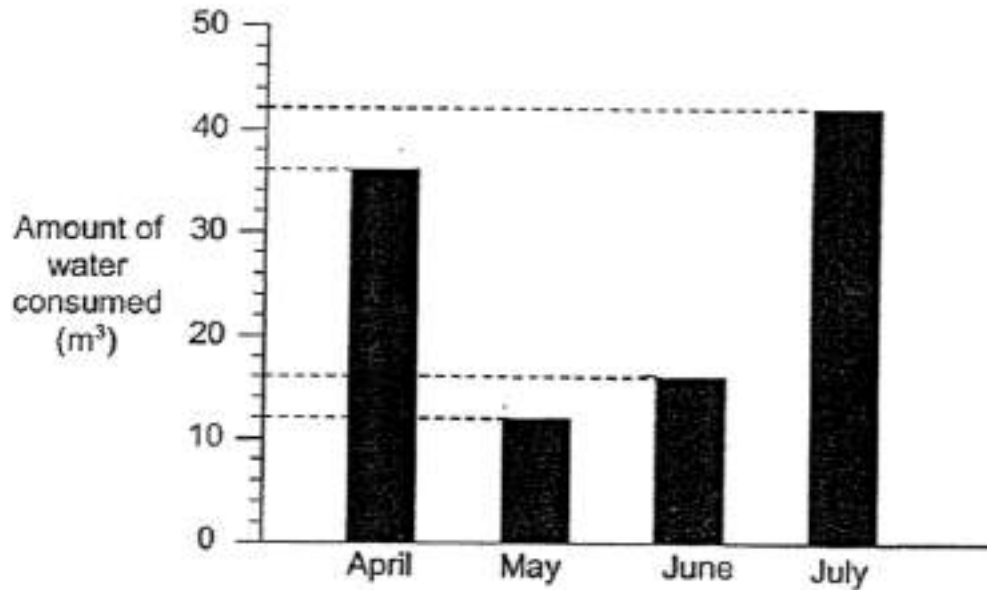
Primary 6 Math (Prelim) 1 pt

For a recycling project, Edmund collected 20 bottles and Fred collected $7k+8$ bottles. They collected 154 bottles altogether. What is the value of k ?

Question 37 of 60

Primary 6 Math (Prelim) 1 pt

The bar graph shows the amount of water consumed by a family from April to July.



- a) How many times was the amount of water consumed in April as compared to May?

Question 38 of 60

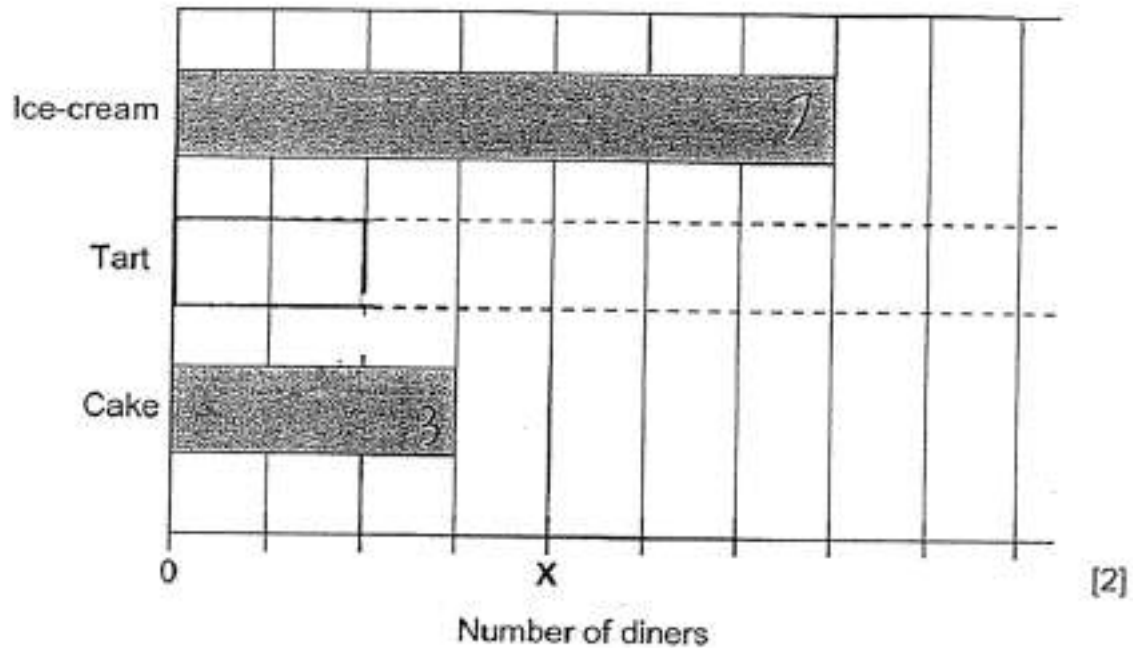
Primary 6 Math (Prelim) 1 pt

- b) What was the percentage increase in the amount of water consumed by the family in July compared to June?

Question 39 of 60

Primary 6 Math (Prelim) 1 pt

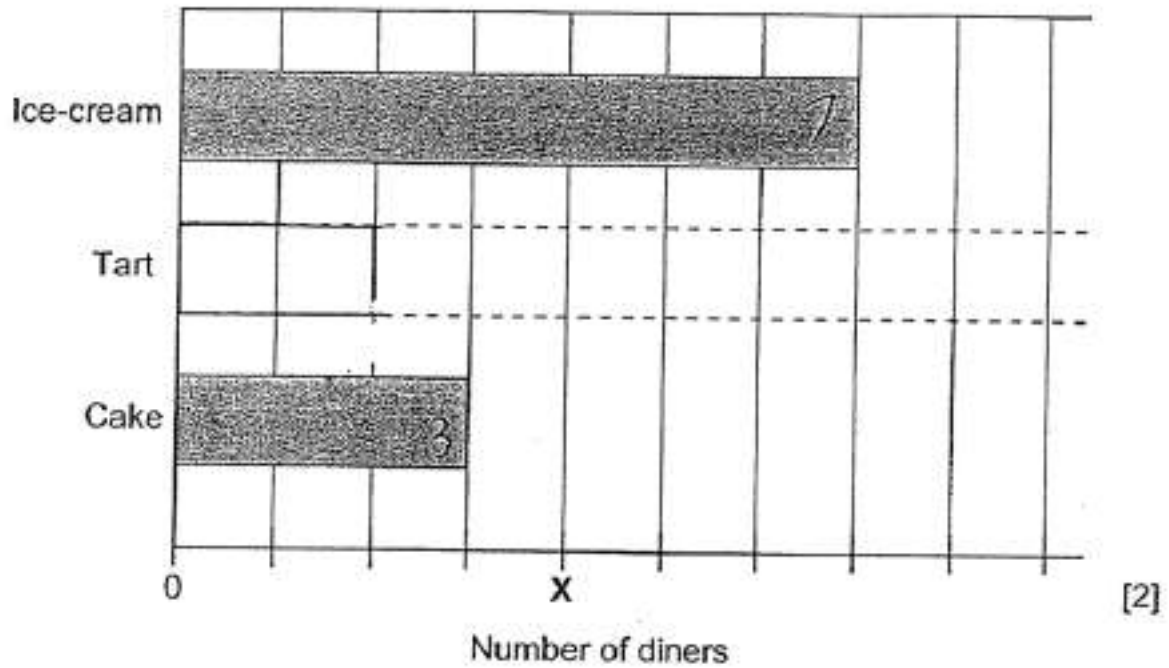
Ice-cream, tart and cake were available as dessert at a dinner. Each diner was asked to choose one dessert. The bar graph represents the diners' choices. The number of diners is not shown on the scale and the bar that shows the number of diners who chose tart has not been drawn.



- a) What was the ratio of the number of diners who chose cake to the number of diners who chose ice-cream?

Question 40 of 60

Primary 6 Math (Prelim) 0 pts



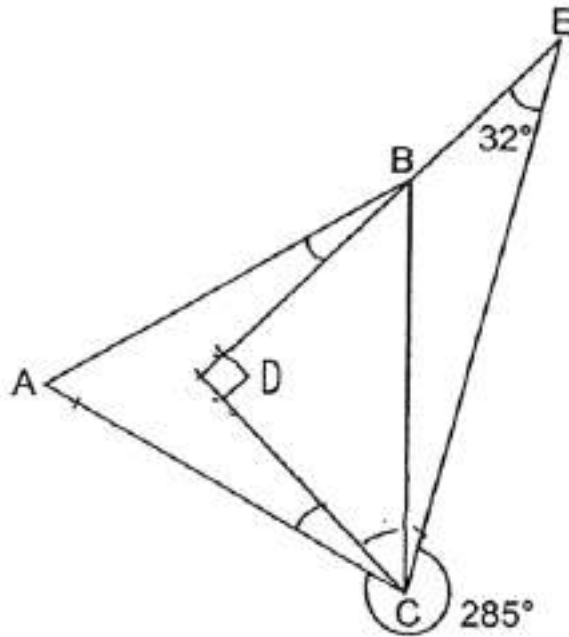
- b) 'X' was the average number of diners who chose a dessert at the dinner. Draw the bar to represent the number of diners who chose tart in the graph.

Question 41 of 60

Primary 6 Math (Prelim) 1 pt

In the figure below, ABC is an equilateral triangle and CDE is a right-angled triangle. Point B of the equilateral triangle lies on the side DE of the right-angled triangle. $\angle DEC = 32^\circ$ and $\angle ECA = 285^\circ$.

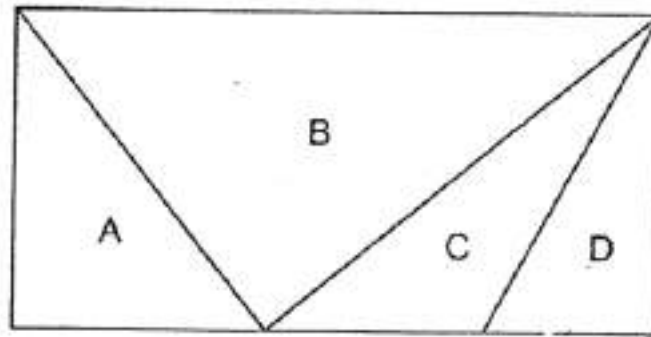
Find $\angle ABD$.



Question 42 of 60

Primary 6 Math (Prelim) 1 pt

A rectangle is made up of four triangles A, B, C and D. The area of A to the area of the rectangle is 1 : 5 while the area of D to the area of the rectangle is 1 : 7.



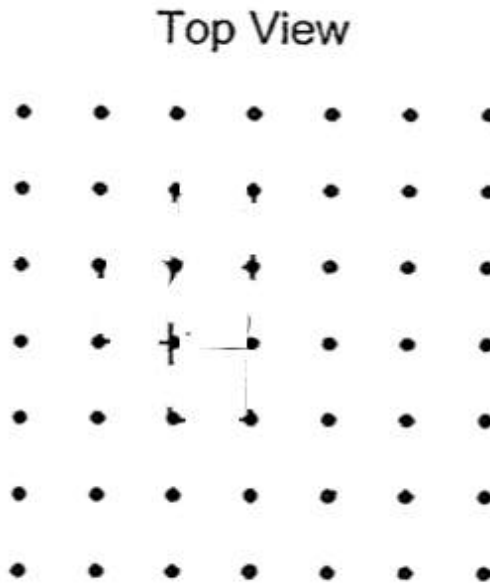
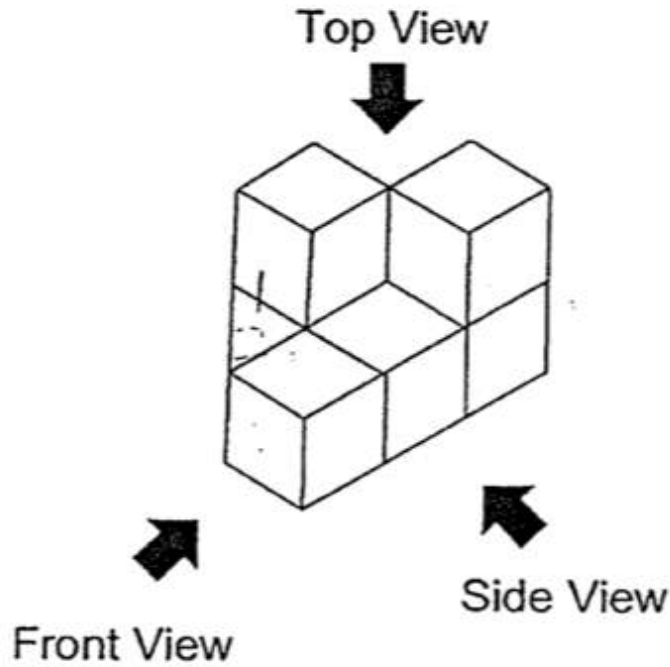
The area of B is 140 cm^2 . What is the area of C?

Question 43 of 60

Primary 6 Math (Prelim) 0 pts

The solid below is made up of 6 identical cubes.

a) Draw the top view of the solid on the grid below.



Please type "done" to proceed to the next question

Question 44 of 60

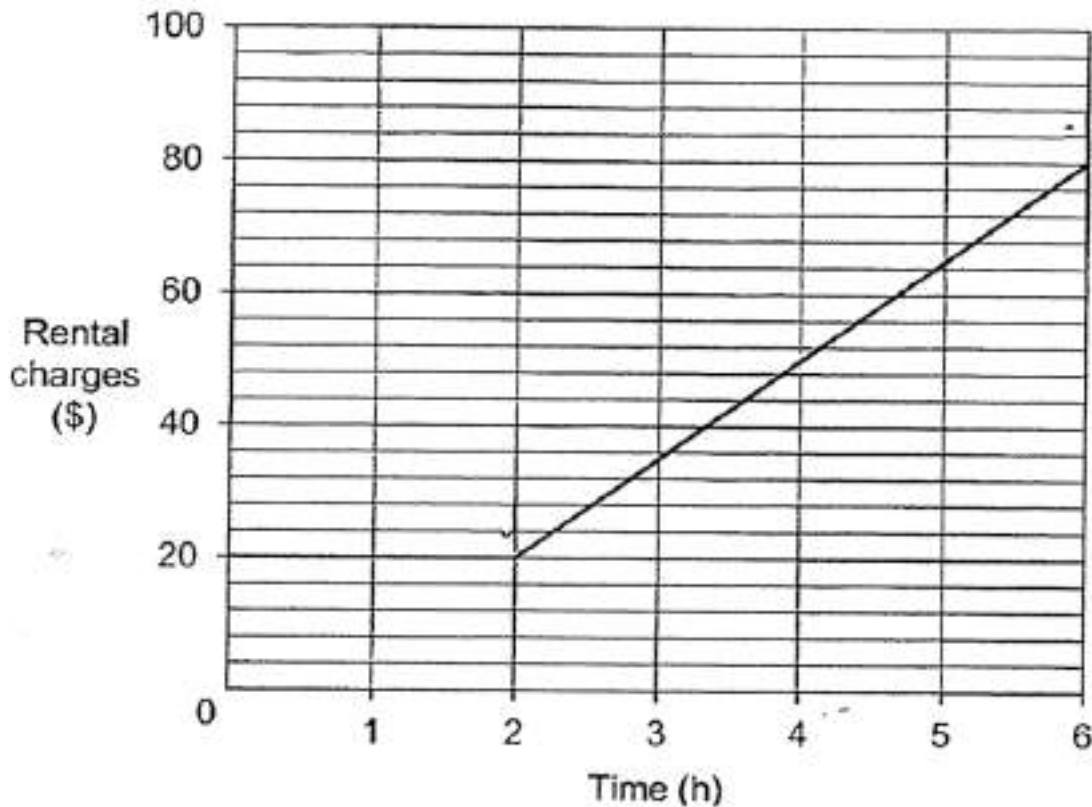
Primary 6 Math (Prelim) 1 pt

b) Linus painted the whole solid including the base. The total area painted is 416cm^2 . What is the length of one edge of each cube?

Question 45 of 60

Primary 6 Math (Prelim) 1 pt

The graph shows the rental charges for a recreation room for the first 6 hours.



a) How much is the rental charge for the recreation room for the first hour?

Question 46 of 60

Primary 6 Math (Prelim) 1 pt

b) How much is the rental charge for every hour after the first 2 hours of use?

Question 47 of 60

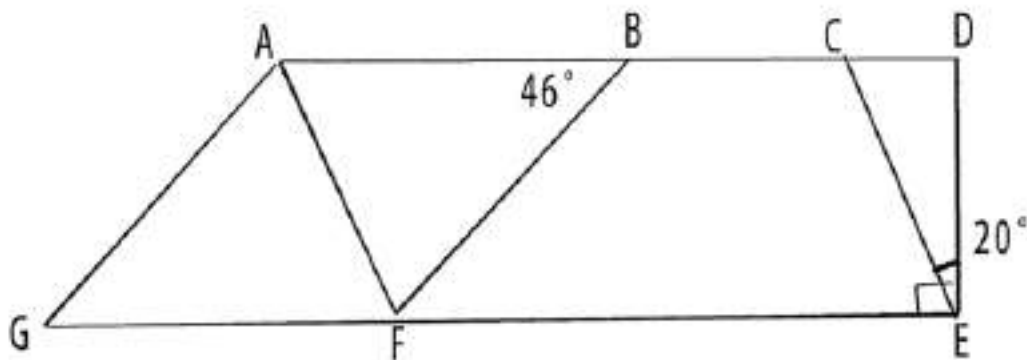
Primary 6 Math (Prelim) 1 pt

c) The rate for rental charge remains the same after the 6th hour. How much is the rental charge for 7 hours?

Question 48 of 60

Primary 6 Math (Prelim) 1 pt

In the figure below, ABF and AFG are isosceles triangles with $BA = BF$ and $GA = GF$ respectively. AF is parallel to CE . $\angle DEF$ is a right angle. ABC is a straight line.



a) Find $\angle BCE$.

Question 49 of 60

Primary 6 Math (Prelim) 1 pt

Statement : ABFG is a rhombus

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

Question 50 of 60

Primary 6 Math (Prelim) 1 pt

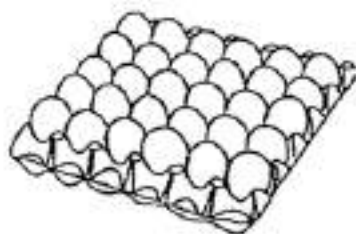
Statement : ACEF is a parallelogram

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

Question 51 of 60

Primary 6 Math (Prelim) 1 pt

Eggs were only sold in trays of 30 eggs at a shop.



Mr Lee bought some such trays of eggs and re-packed them into carton boxes of 12 eggs as shown below. He needed 6 more eggs to have exact carton boxes of 12 eggs and 26 more carton boxes than trays.



How many eggs did Mr Lee buy from the shop?

Question 52 of 60

Primary 6 Math (Prelim) 1 pt

Mr Ang paid \$315 for 21 chairs. Mr Ba paid the same amount but got 4 more chairs than Mr Ang because he used a membership coupon that gave him a discount for every 4 chairs purchased.

a) How much would Mr Bay had paid for the chairs without the use of the membership coupon?

Question 53 of 60

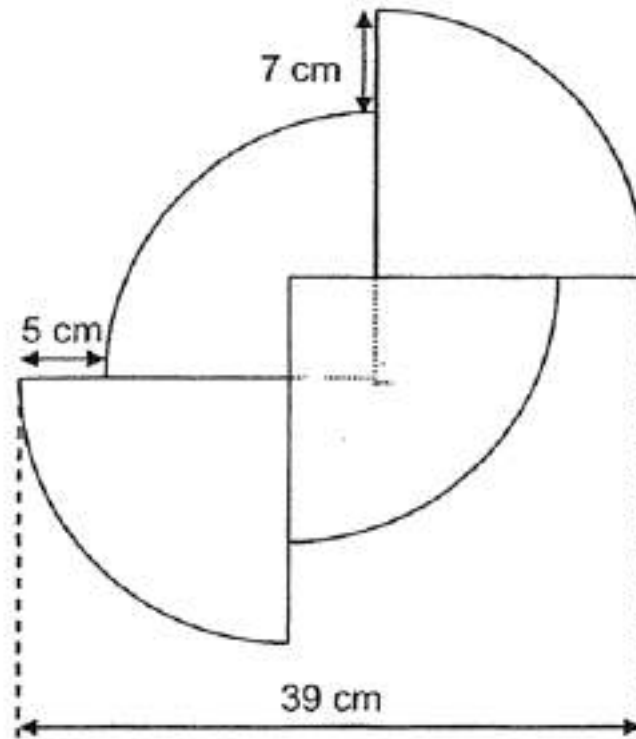
Primary 6 Math (Prelim) 1 pt

b) With the use of the membership coupon, how much was the discount for every 4 chairs purchased?

Question 54 of 60

Primary 6 Math (Prelim) 1 pt

The figure is made of 4 identical quarter circles with 2 quarter circles overlapping to form a rectangle.



a) What is the radius of each quarter circle?

Question 55 of 60

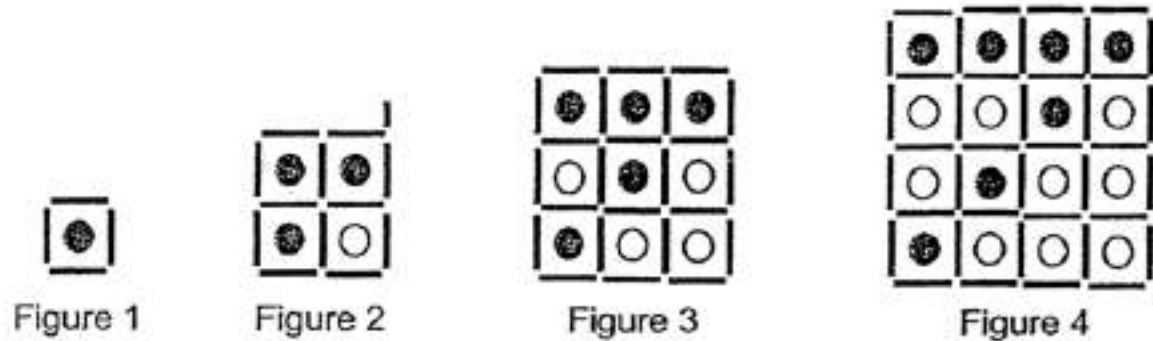
Primary 6 Math (Prelim) 1 pt

b) Find the area of the figure.
Take $\pi = 3.14$

Question 56 of 60

Primary 6 Math (Prelim) 1 pt

Mabel used white dots, grey dots and sticks to form figures that follow a pattern. The first four figures of the pattern are shown below.



The table below shows the number of white dots, black dots and sticks used for each figure.

Figure Number	1	2	3	4	5
Number of white dots	0	1	4	9	
Number of grey dots	1	3	5	7	
Number of sticks	4	12	24	40	60

[1]

a) Fill in the table for Figure 5.

____, ____

Question 57 of 60

Primary 6 Math (Prelim) 1 pt

b) How many white dots are there in figure 50?

Question 58 of 60

Primary 6 Math (Prelim) 1 pt

c) What is the total number of sticks in figure 50?

Question 59 of 60

Primary 6 Math (Prelim) 1 pt

Axel and Brady had some identical large cubes and some identical small cubes. Each of them had a rectangular box of the same base but different height. They packed their cubes into their own box with cubes of the same size stacked on top of each other.

The figure below shows the first layer of cubes packed in each box.



a) Axel's box was packed tightly to the brim without any gaps. There were 50 more small cubes than large cubes. How many cubes were packed into the box altogether?

Question 60 of 60

Primary 6 Math (Prelim) 1 pt

b) In Brady's box, the space occupied by all the large cubes and that of the small cubes was the same. What fraction of the cubes was the small cubes?
