

**Test:** (2020) Primary 6 Math (Term 2) - Nan Hua

**Points:** 50 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 54**

Primary 6 Math (Term 2) 1 pt

Round 372 851 to the nearest hundred.

- \_\_\_\_\_
- A) 372 800
- B) 372 850
- C) 372 900
- D) 373 000

**Question 2 of 54**

Primary 6 Math (Term 2) 1 pt

What is the value of  $24 + 16 \div (5 - 1) \times 2$ ?

- \_\_\_\_\_
- A) 5
- B) 20
- C) 26
- D) 32

**Question 3 of 54**

Primary 6 Math (Term 2) 1 pt

Which of the following are common factors of 24 and 30?

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- A) 2 and 3
- B) 3 and 5
- C) 4 and 5
- D) 4 and 6

**Question 4 of 54**

Primary 6 Math (Term 2) 1 pt

Find the value of  $\frac{5}{6} \times 20$ .

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- A)  $\frac{1}{24}$
- B)  $\frac{3}{50}$
- C)  $16\frac{2}{3}$
- D) 24

**Question 5 of 54**

Primary 6 Math (Term 2) 1 pt

Which of the following is common multiple of 4 and 9?

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- A) 16
- B) 18
- C) 32
- D) 36

**Question 6 of 54**

Primary 6 Math (Term 2) 1 pt

Simplify the following algebraic expression

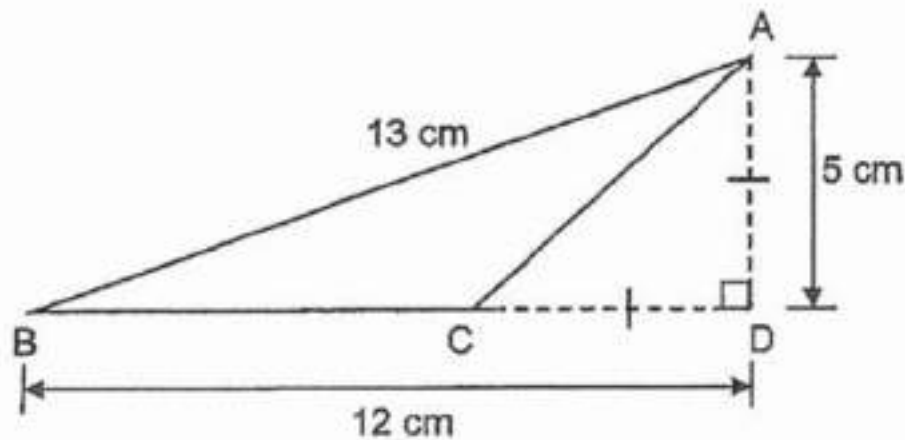
$$12p + 7 - 5p - 3$$

- A)  $17p+10$
- B)  $17p+4$
- C)  $7p+10$
- D)  $7p+4$

**Question 7 of 54**

Primary 6 Math (Term 2) 1 pt

In the figure below, not drawn to scale, BCD is a straight line and  $AD = CD$ . What is the area of triangle ABC?



- A)  $17.5\text{cm}^2$
- B)  $30\text{cm}^2$
- C)  $32.5\text{cm}^2$
- D)  $78\text{cm}^2$

## Question 8 of 54

Primary 6 Math (Term 2) 1 pt

Betty had some fruits.  $\frac{5}{9}$  of the fruits were apples and the rest were oranges.  $\frac{3}{10}$  of the apples were green apples and the rest were red apples. What fraction of the fruits were red apples?

 A)

$$\frac{2}{15}$$

 B)

$$\frac{3}{18}$$

 C)

$$\frac{14}{45}$$

 D)

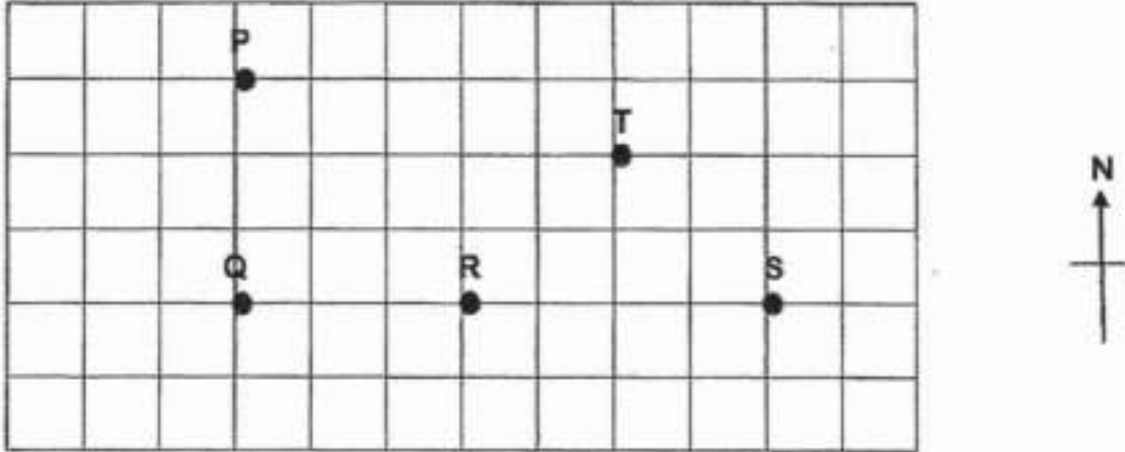
$$\frac{7}{18}$$

## Question 9 of 54

Primary 6 Math (Term 2)

1 pt

In the square grid below, a school is located at south-west of point T.  
At which point is the school located?



- A) P
- B) Q
- C) R
- D) S

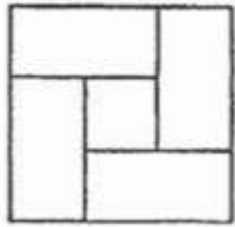
**Question 10 of 54**

Primary 6 Math (Term 2) 1 pt

Which one of the following is not a symmetric figure?

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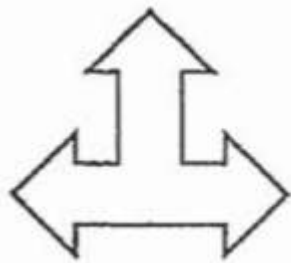
A)



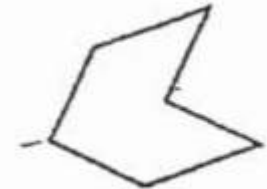
B)



C)



D)



**Question 11 of 54**

Primary 6 Math (Term 2) 1 pt

A class of students was asked to sell concert tickets.

The table below shows the number of tickets sold by the students in the class.

Number of students	Number of tickets sold by each student
9	0
11	2
?	3
2	5

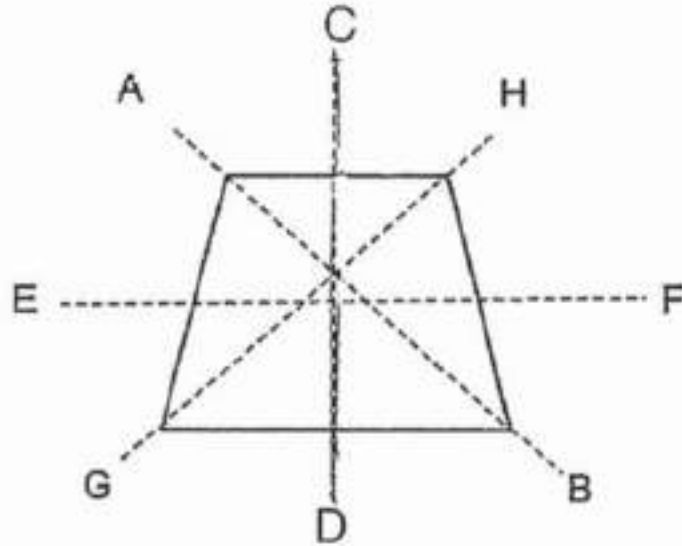
The students sold a total of 56 tickets. How many students sold only 3 tickets each?

- A) 32
- B) 24
- C) 8
- D) 5

## Question 12 of 54

Primary 6 Math (Term 2) 1 pt

Which of the following lines is the line of symmetry of the trapezium?



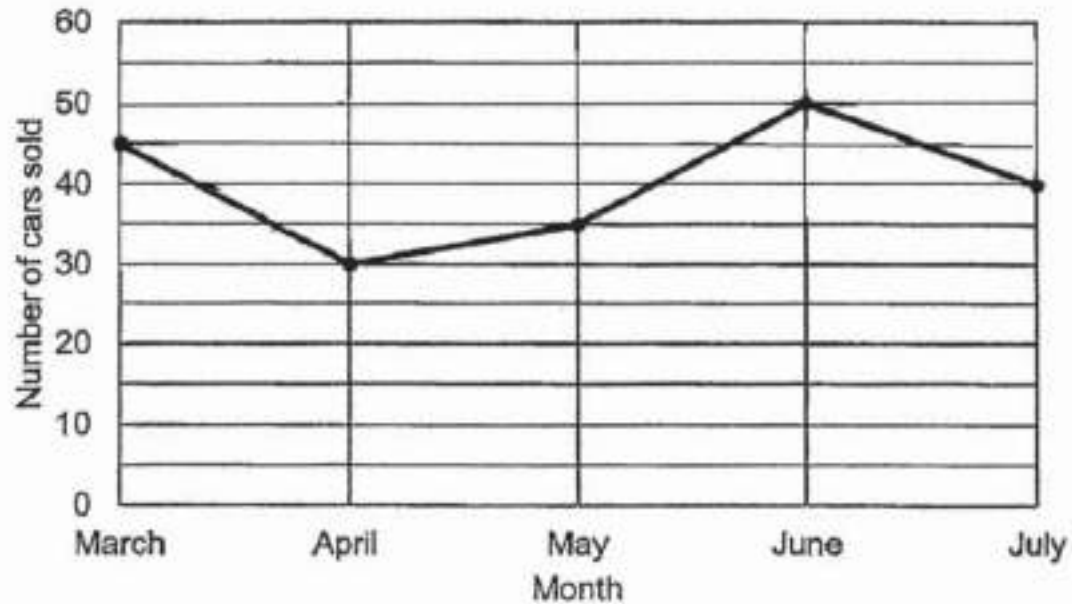
- A) AB
- B) CD
- C) EF
- D) GH



## Question 13 of 54

Primary 6 Math (Term 2) 1 pt

The line graph below shows the number of cars sold from March to July.



What percentage of the total number of cars sold from March to July was sold in the month of April?

- A) 15%
- B) 30%
- C) 85%
- D) 200%

## Question 14 of 54

Primary 6 Math (Term 2) 1 pt

120kg of chicken wings were packed into 40 packets equally. What was the mass of each packet of chicken wings?

- A) 30 g
- B) 300 g
- C) 3 g
- D) 3000 g

**Question 15 of 54**

Primary 6 Math (Term 2) 1 pt

Box A contains only 20 cent coins and Box B contains only 50 cent coins. The number of coins in Box A is twice the number of coins in Box B. The amount of money in Box B is \$1.60 more than the amount of money in Box A. How many 20 cent coins are there in Box A?

- A) 8
- B) 16
- C) 32
- D) 48

**Question 16 of 54**

Primary 6 Math (Term 2) 1 pt

Find the value of  $12 + \frac{8}{9}$ . Leave your answer as a mixed number in its simplest form.

**Question 17 of 54**

Primary 6 Math (Term 2) 1 pt

The table below shows the number of laptops owned by per household in a housing estate.

Number of laptops owned by per household	0	1	2	3 and more
Number of households	9	53	62	16

How many households owned at least 2 laptops?

**Question 18 of 54**

Primary 6 Math (Term 2) 1 pt

Anita started her jog at 17 37. She finished jogging at 18 26. How long did Anita jog?

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**Question 19 of 54**

Primary 6 Math (Term 2) 1 pt

5 children shared  $\frac{4}{5}$  ℓ of lemonade equally. How much lemonade did each child get?

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**Question 20 of 54**

Primary 6 Math (Term 2) 1 pt

Match the options below in ascending order :

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1. [ ]

$$\frac{3}{7},$$

A. smallest

2. [ ]

$$\frac{1}{2},$$

B. great

3. [ ]

$$\frac{5}{8}$$

C. small

4. [ ]

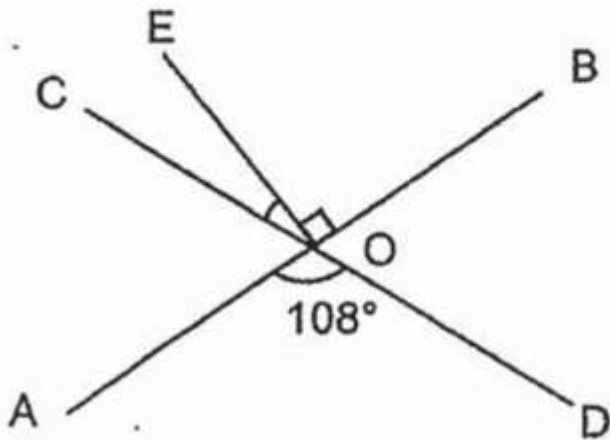
$$\frac{2}{3},$$

D. greatest

## Question 21 of 54

Primary 6 Math (Term 2) 1 pt

AB and CD are straight lines. Find  $\angle COE$ .



## Question 22 of 54

Primary 6 Math (Term 2) 0 pts

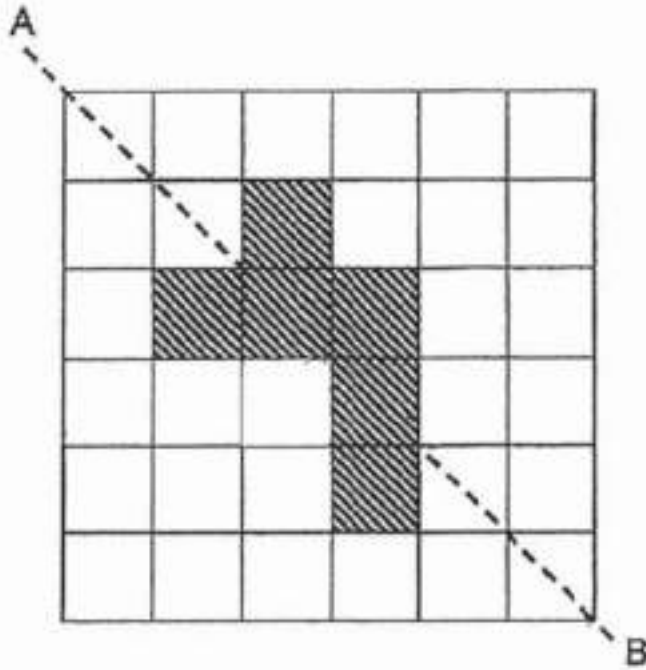
Using the line AB provided below, construct  $\angle ABC = 110^\circ$ .



## Question 23 of 54

Primary 6 Math (Term 2) 0 pts

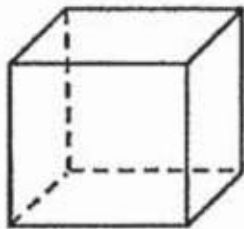
There are 6 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.



**Question 24 of 54**

Primary 6 Math (Term 2) 1 pt

The edge of a cube is 6 cm. What is the volume of the cube?

**Question 25 of 54**

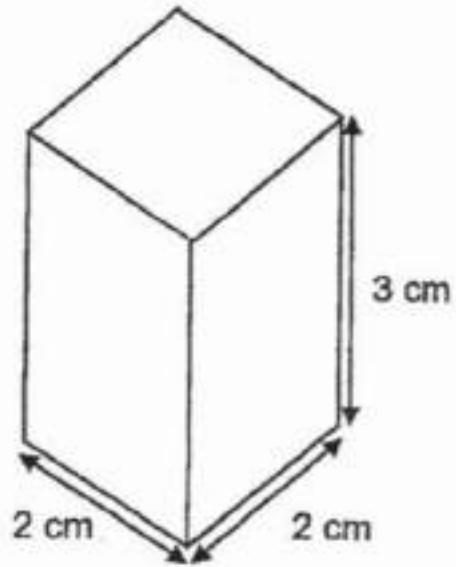
Primary 6 Math (Term 2) 1 pt

What is the value of  $\frac{14a + 11}{3}$  when  $a = 8$ ?

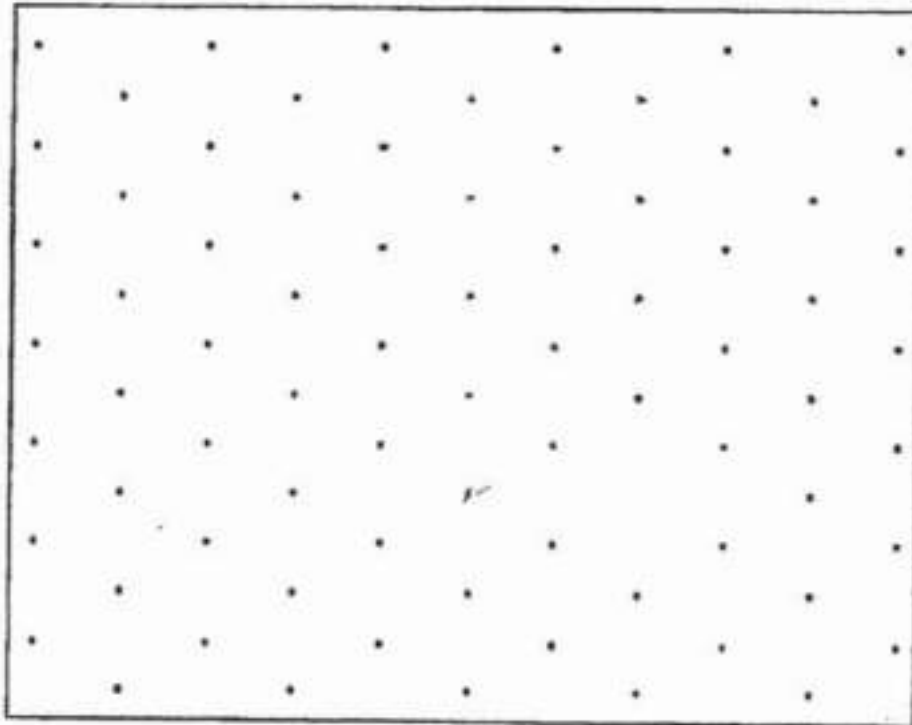
## Question 26 of 54

Primary 6 Math (Term 2) 0 pts

The figure below shows Cuboid A. Draw a cuboid with a volume half that of Cuboid A on the isometric grids provided.



Cuboid A





**Question 27 of 54**

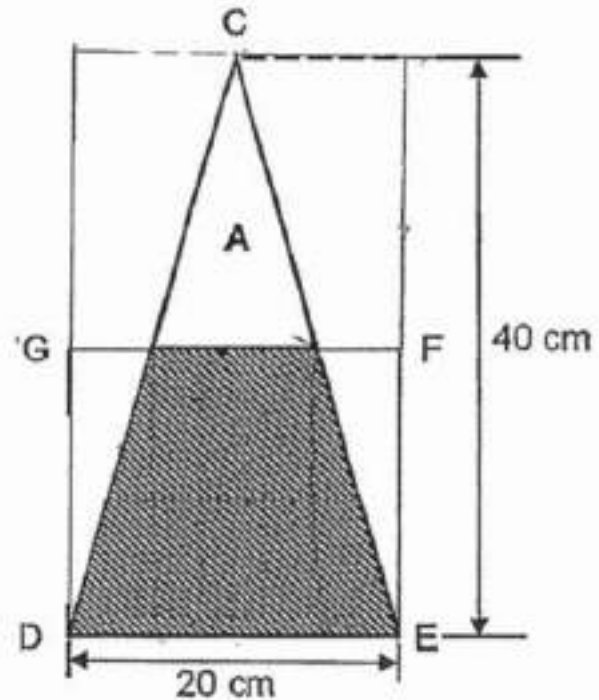
Primary 6 Math (Term 2) 1 pt

There were 120 red, blue and yellow beads in a box. The number of red beads is  $\frac{1}{4}$  the number of blue beads. There were 30 more yellow beads than red beads. What is the ratio of the number of red beads to the number of blue beads to the number of yellow beads in the box?

## Question 28 of 54

Primary 6 Math (Term 2) 1 pt

In the figure below, not drawn to scale, consists of a triangle CDE and a square DEFG. Find the area of unshaded triangle A.



## Question 29 of 54

Primary 6 Math (Term 2) 1 pt

Fatimah, Gretel and Helen shared \$n. Fatimah received thrice as much money as Helen. Gretel received \$15 less than Fatimah.

Statement: Gretel received more money than Helen

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

## Question 30 of 54

Primary 6 Math (Term 2) 1 pt

Helen received  $\$(\frac{n+15}{7})$ .

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

## Question 31 of 54

Primary 6 Math (Term 2) 1 pt

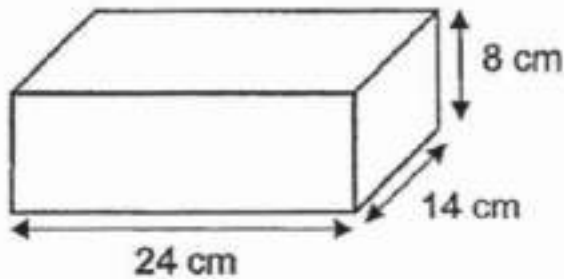
The list below shows the items Mrs Lim bought. The average cost of the items was \$25. What was the cost for Item A?

Item	Cost
A	\$1 <input type="text"/>
B	\$ 34
C	\$ <input type="text"/> 8
D	\$ 22

**Question 32 of 54**

Primary 6 Math (Term 2) 1 pt

The figure below shows a 24 cm by 14 cm by 8 cm cuboid. Find the volume of the cuboid.

**Question 33 of 54**

Primary 6 Math (Term 2) 1 pt

Gabby and Helens shared a sum of money in the ratio of 3:2. When Gabby gave \$20 to Helen, the ratio of Gabby's amount of money to Helen's amount of money became 4:11. How much money did Gabby have at first?

## Question 34 of 54

Primary 6 Math (Term 2) 1 pt

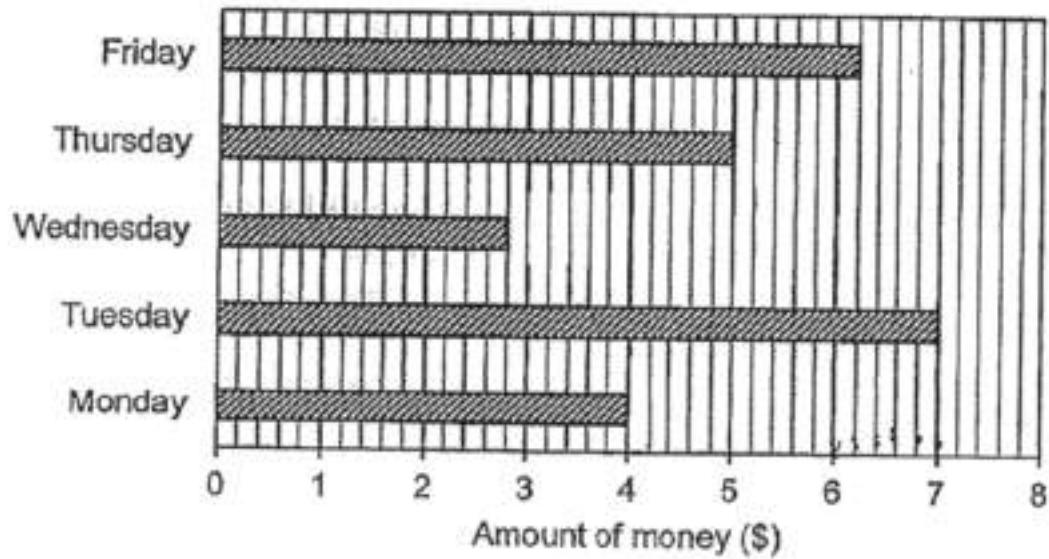
Mr Lai and his 3 children went to a Maze Park. They stayed there from 15 00 to 17 10. The table below shows the charges. How much did Mr Lai pay for the children?

	1 <sup>st</sup> hour	Every additional $\frac{1}{2}$ hour
Adult	\$12.50 per hour	\$7
Child	\$7.50 per hour	\$4

## Question 35 of 54

Primary 6 Math (Term 2) 1 pt

Jennis received \$8 for her pocket money from her parents daily. The following bar graph shows her spending on a certain week.



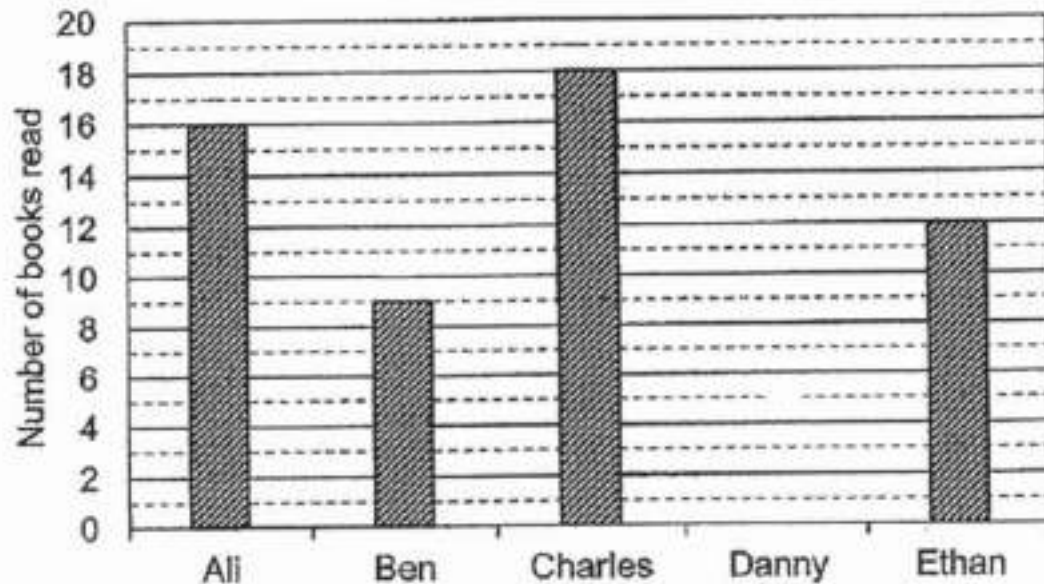
What was Jennis' average savings over the 5 days? .

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**Question 36 of 54**

Primary 6 Math (Term 2) 1 pt

The following bar graph shows the number of books read by 5 boys over a week.



What is the average number of books read by the boys?

**Question 37 of 54**

Primary 6 Math (Term 2) 1 pt

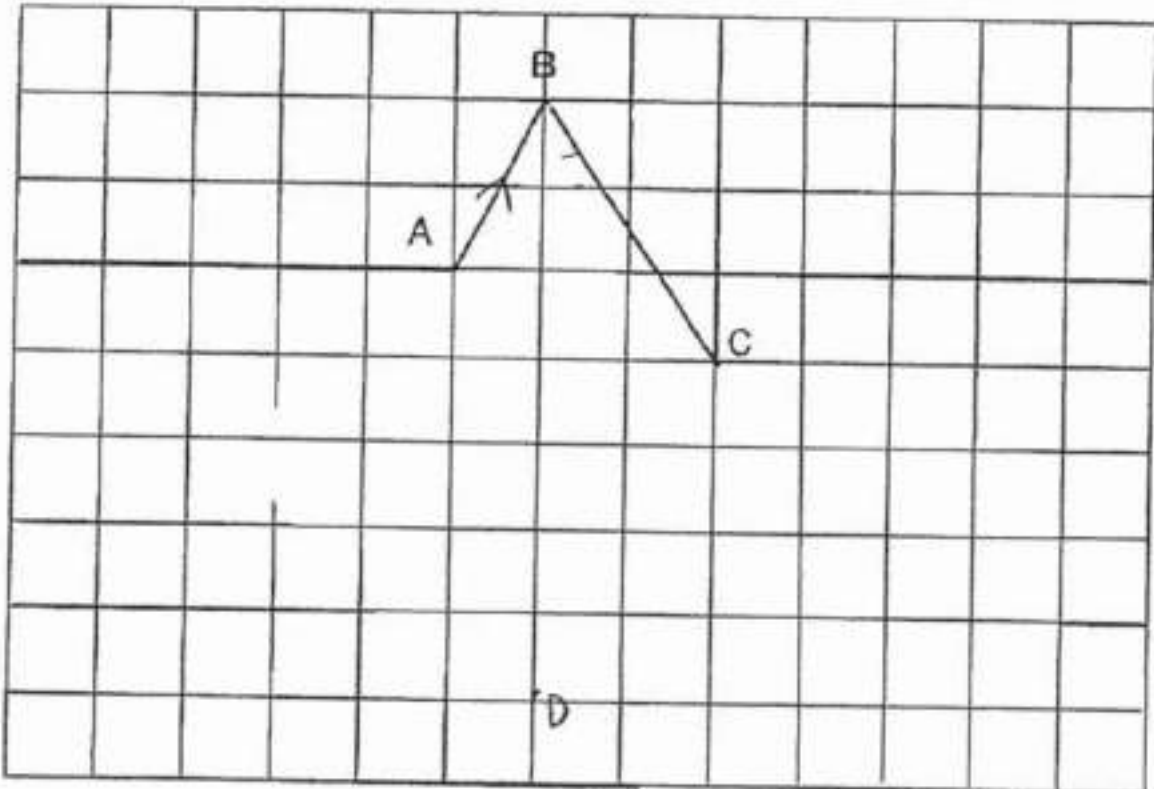
Katinah paid \$36 for 30 cupcakes after a 20% discount. How many cupcakes could she have bought with the same amount of money without the discount?

## Question 38 of 54

Primary 6 Math (Term 2) 0 pts

In the square grid, AB and BC are drawn. They form 2 sides of a trapezium ABCD.

- (a) Measure and write down the size of  $\angle ABC$ .
- (b) Complete the drawing of the trapezium ABCD such that AB is parallel to CD and line CD is twice as long as line AB. [2]

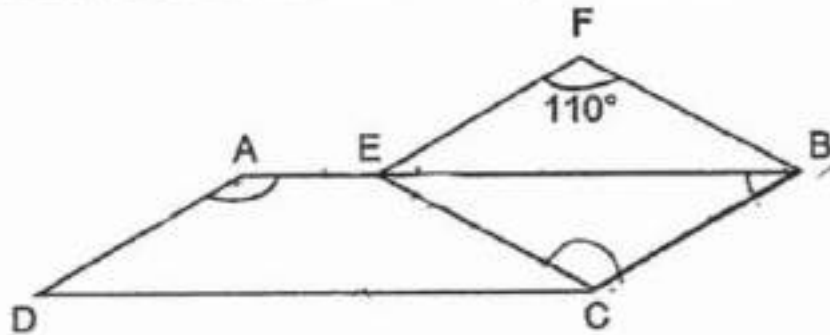




## Question 39 of 54

Primary 6 Math (Term 2) 1 pt

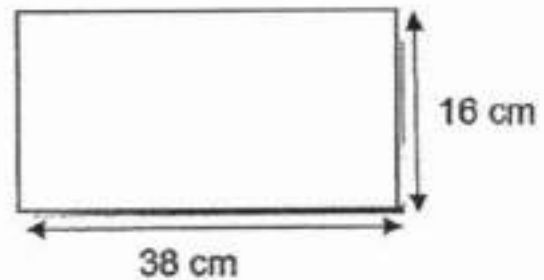
The figure below, not drawn to scale, is made up of a parallelogram ABCD and a rhombus BCEF. Given that  $\angle BFE = 110^\circ$ , find  $\angle BAD$ .



## Question 40 of 54

Primary 6 Math (Term 2) 1 pt

The diagram below, not drawn to scale, shows a rectangle. When its length is increased by 50% and its breadth is increased by 20%, what is the percentage increase in its area?

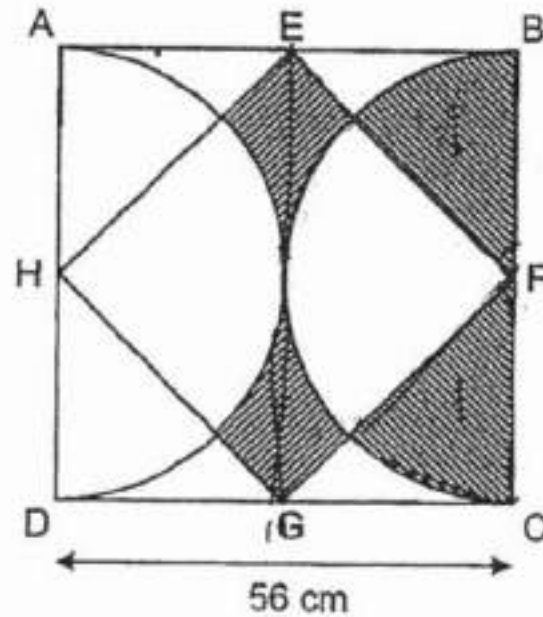


**Question 41 of 54**

Primary 6 Math (Term 2) 1 pt

The figure below is made up of 2 square, ABCD and EFGH, and 2 identical semicircles. E, F, G and H are the mid-points of AB, BC, CD and AD respectively. Find the total area of the shaded parts.

(Take  $\pi = \frac{22}{7}$ )

**Question 42 of 54**

Primary 6 Math (Term 2) 1 pt

In a box, the ratio of the number of blue beads to the number of red beads was 5:14. The ratio of the number of yellow beads to the number of red beads 2:7.

- a) Find the ratio of the number of blue beads to the number of yellow beads to the number of red beads

**Question 43 of 54**

Primary 6 Math (Term 2) 1 pt

b) After 360 blue beads were removed from the box,  $\frac{1}{10}$  of the remaining beads were blue beads. How many more red beads than blue beads were there in the box in the end?

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**Question 44 of 54**

Primary 6 Math (Term 2) 1 pt

Mrs Ang gave a bag of marbles to her children, if she gave them 9 more marbles to share among themselves, they would have an average number of 18 marbles. If she gave them 25 more marbles to share among themselves, they would have an average number of 22 marbles. How many children did Mrs Ang have?

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**Question 45 of 54**

Primary 6 Math (Term 2) 1 pt

Mr Liang paid \$1788.60 for some boxes of face masks and boxes of alcohol swab. He paid \$1603.80 more for the face masks than the alcohol swab. The number of boxes of face masks he bought was three times as many as the number of boxes of alcohol swab. A box of alcohol swab cost \$21.50 less than a box of face masks. Find the cost of a box of face masks.

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**Question 46 of 54**

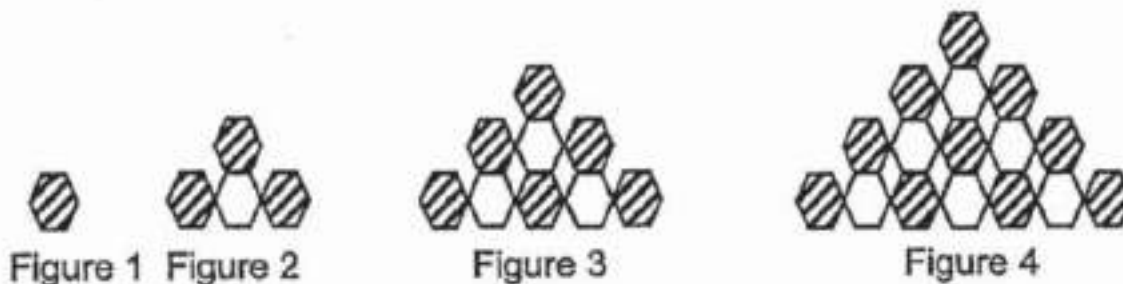
Primary 6 Math (Term 2) 1 pt

Yasmin had 210 kg of grapes. She sold  $\frac{3}{7}$  of the grapes on Monday and  $\frac{3}{8}$  of the remainder on Tuesday. She packed the remaining grapes into small bags containing  $\frac{3}{4}$  kg of grapes. How many small bags of grapes did Yasmin pack?

**Question 47 of 54**

Primary 6 Math (Term 2) 1 pt

The diagram below shows 4 figures formed by shaded and unshaded hexagons.



(a) Complete the table below.

Figure Number	Total number of hexagons	Total number of shaded hexagons
1	1	1
2	4	3
3	9	6
4	16	10
7	(i) _____	(ii) _____

ai) \_\_\_\_\_

**Question 48 of 54**

Primary 6 Math (Term 2) 1 pt

a ii) \_\_\_\_\_  
\_\_\_\_\_**Question 49 of 54**

Primary 6 Math (Term 2) 1 pt

b) Find the number of unshaded hexagons in figure 15  
\_\_\_\_\_**Question 50 of 54**

Primary 6 Math (Term 2) 1 pt

c) The total number of hexagons of a figure is 529. What is the difference between the number fo shaded hexagons and the number of unshaded hexagons of that figure?  
\_\_\_\_\_

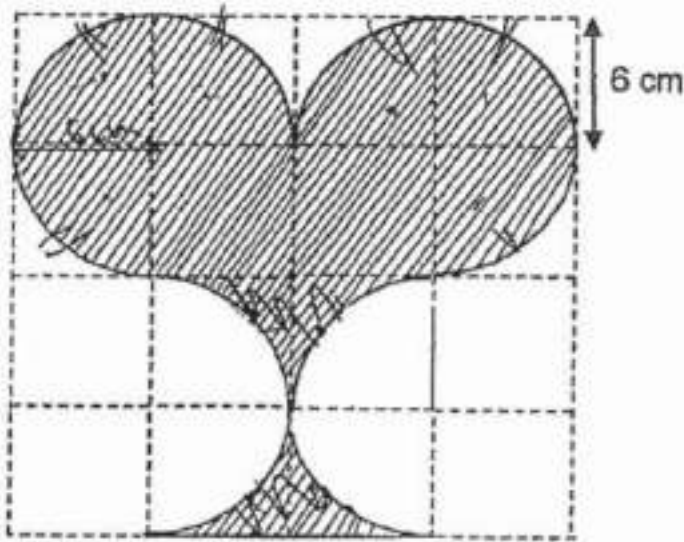
**Question 51 of 54**

Primary 6 Math (Term 2) 1 pt

The figure below is made up of two identical semicircles, 6 identical quadrants and 16 squares. The side of each square is 6 cm.

(a) Find the perimeter of the shaded figure.

(Take  $\pi = 3.14$ )

**Question 52 of 54**

Primary 6 Math (Term 2) 1 pt

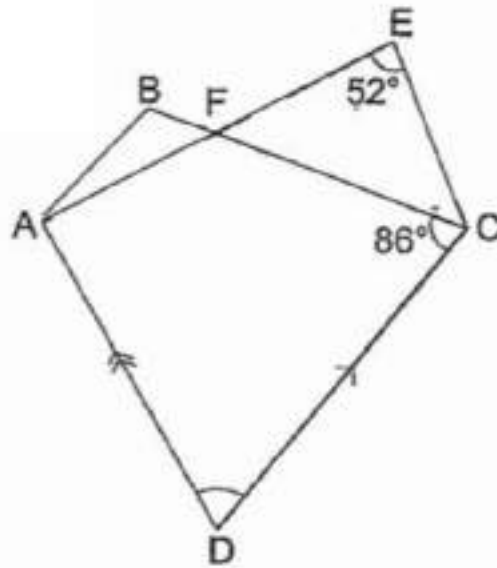
b) Find the area of the shaded figure

## Question 53 of 54

Primary 6 Math (Term 2) 1 pt

The figure below, not drawn to scale, is made up of 2 trapeziums ABCD and ADCE. AB is parallel to DC and AD is parallel to EC.  $\angle BCD = 86^\circ$ ,  $\angle CEF = 52^\circ$  and  $EF = CE$ .

(a) Find  $\angle BAF$ .



## Question 54 of 54

Primary 6 Math (Term 2) 1 pt

b) Find  $\angle ADC$