



PRIMARY 4 (GRADE 4) 2024 CONTEST PAPER

NAME: _____

Index Number:

SCHOOL: _____

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INSTRUCTIONS:

1. Please **DO NOT OPEN** the contest booklet until the Proctor has given permission to start
2. TIME: **1 hour 30 minutes.**
3. There are 31 questions:
Section A: Questions 1 to 15 score 2 points each, no points are deducted for an unanswered question and for the wrong answer.
Section B: Questions 16 to 25 score 4 points each, no points are deducted for an unanswered or wrong answer.
Section C: Questions 26 to 31 score 5 points each, no points are deducted for an unanswered or wrong answer.
4. Shade your answers neatly using a **2B lead pencil** in the Answer Entry Sheet.
5. PROCTORING: No one may help any student in any way during the contest.
6. No electronic devices capable of storing and displaying visual information are allowed during the course of the exam.
7. Strictly **No Calculators** are allowed into the exam.
8. All students must fill and shade their **Name, School and Index Number** in the Answer Entry Sheet and Contest booklet.
9. MINIMUM TIME: Students must stay in the exam hall for at least 1 hour.
10. All students must show detailed workings in the contest booklet and transfer answers to the Answer Entry Sheet.
11. **No exam papers and written notes can be taken out by any contestant.**

Rough Working

SMC 2024, Primary 4 (Grade 4) Challenge

Section (A) (Questions 1 to 15 carry 2 marks each. For each question, 4 options are given. One of them is the correct answer. Make your choice (A, B, C or D). Shade the correct circle on the Answer Entry Sheet (AES). No marks will be deducted for wrong answers.)

Question 1

What is the value of 20 thousands and 9 tens?

- A. 209
- B. 2009
- C. 20 009
- D. 20 090

Question 2

How many one-thirds are there in 4 wholes?

- A. $\frac{3}{4}$
- B. $1\frac{3}{4}$
- C. 3
- D. 12

Question 3

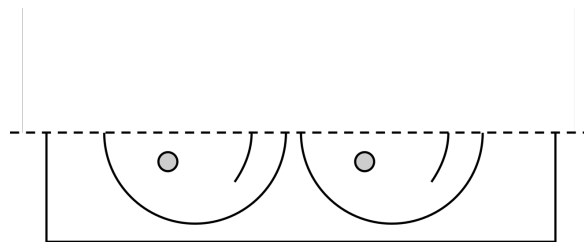
Which of the following is **not** an equivalent fraction of $\frac{1}{4}$?

- A. $\frac{2}{8}$
- B. $\frac{3}{12}$
- C. $\frac{5}{8}$
- D. $\frac{25}{100}$

Question 4

A figure folded in half along the dotted line of symmetry is shown below.

Which of the following figures is the symmetric figure when opened up?



- A.
- B.
- C.
- D.

Question 5

The table shows the number of pets kept by a group of children.

Number of pets	0	1	2	3	4
Number of children	10	17	5	8	2

How many children have **more** than 1 pet?

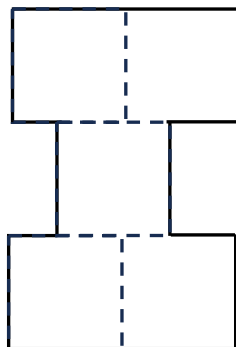
- A. 15
- B. 17
- C. 27
- D. 32

Question 6

The figure below is made up of 5 identical squares.

The area of each square is 36 cm^2 .

What is the perimeter of the figure?



- A. 60 cm
- B. 72 cm
- C. 120 cm
- D. 180 cm

Question 7

Arrange the following from the greatest to the smallest.

$$\frac{9}{20}, \quad 0.54, \quad 4.05, \quad \frac{1}{2}$$

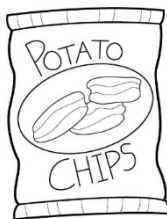
- A. $\frac{9}{20}, 0.54, \frac{1}{2}, 4.05$
- B. $\frac{1}{2}, \frac{9}{20}, 0.54, 4.05$
- C. $4.05, 0.54, \frac{9}{20}, \frac{1}{2}$
- D. $4.05, 0.54, \frac{1}{2}, \frac{9}{20}$

Question 8

Jason has \$20.

He bought 2 packets of chips and 6 oranges.

How much money did he have left?



1 packet of chips
\$2.50



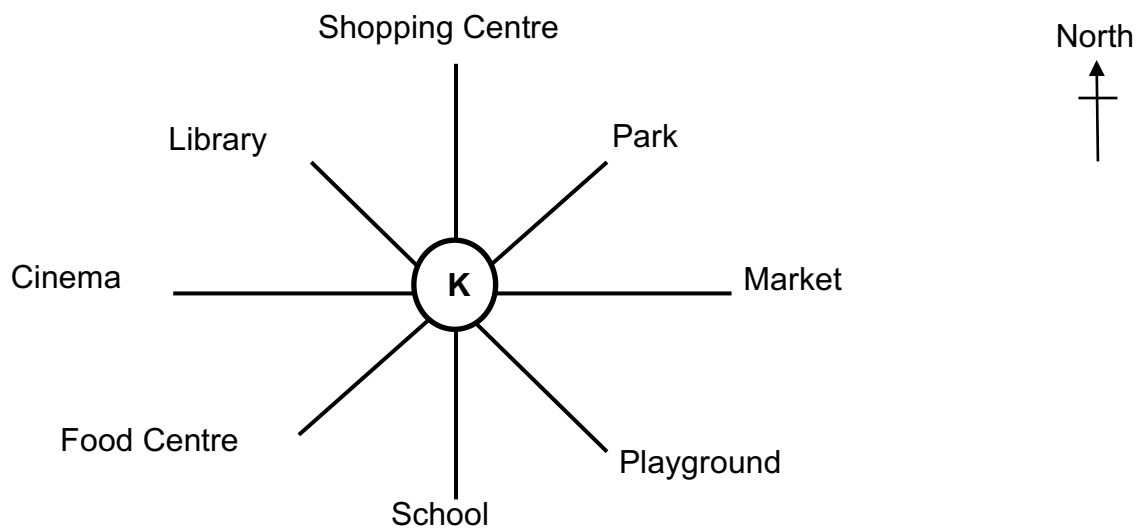
3 oranges for \$1.20

- A. \$7.40
- B. \$7.80
- C. \$10.30
- D. \$12.60

Question 9

Kayden is standing at point K facing the park.

He makes a 135° clockwise turn followed by a 315° anticlockwise turn. Where will he be facing now?



- A. Food Centre
- B. Cinema
- C. Market
- D. School

Question 10

Linda had 3 litres of milk.

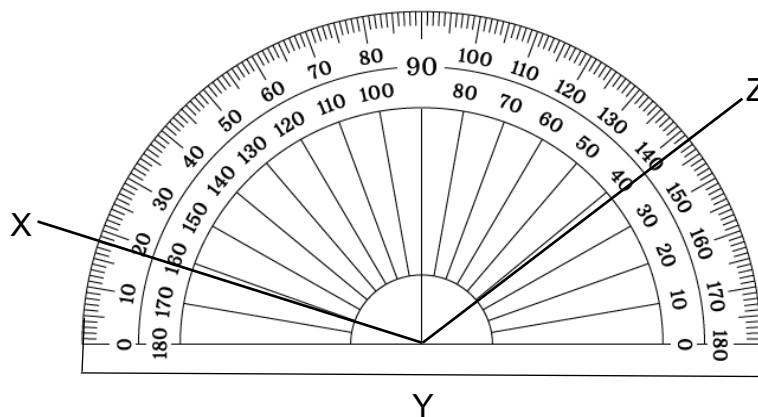
She spilled $\frac{1}{6}$ ℓ of milk and used $\frac{3}{4}$ ℓ to bake some cookies.

How much milk did she have left?

- A. $\frac{11}{12}$ ℓ
- B. $2\frac{1}{12}$ ℓ
- C. $2\frac{1}{4}$ ℓ
- D. $2\frac{5}{6}$ ℓ

Question 11

Find the value of $\angle XYZ$.



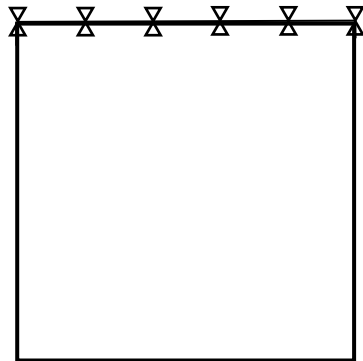
- A. 18°
- B. 38°
- C. 124°
- D. 142°

Question 12

Mrs Bala wanted to sew 6 ribbons on each side of a square handkerchief as shown below.

There was a ribbon at each corner of the handkerchief.

How many ribbons did she sew in total?



- A. 18
- B. 20
- C. 24
- D. 36

Question 13

Mariam started her piano lesson at the time shown on the clock below.

The duration of the piano lesson is 75 minutes.

However, the lesson ended 10 minutes later.

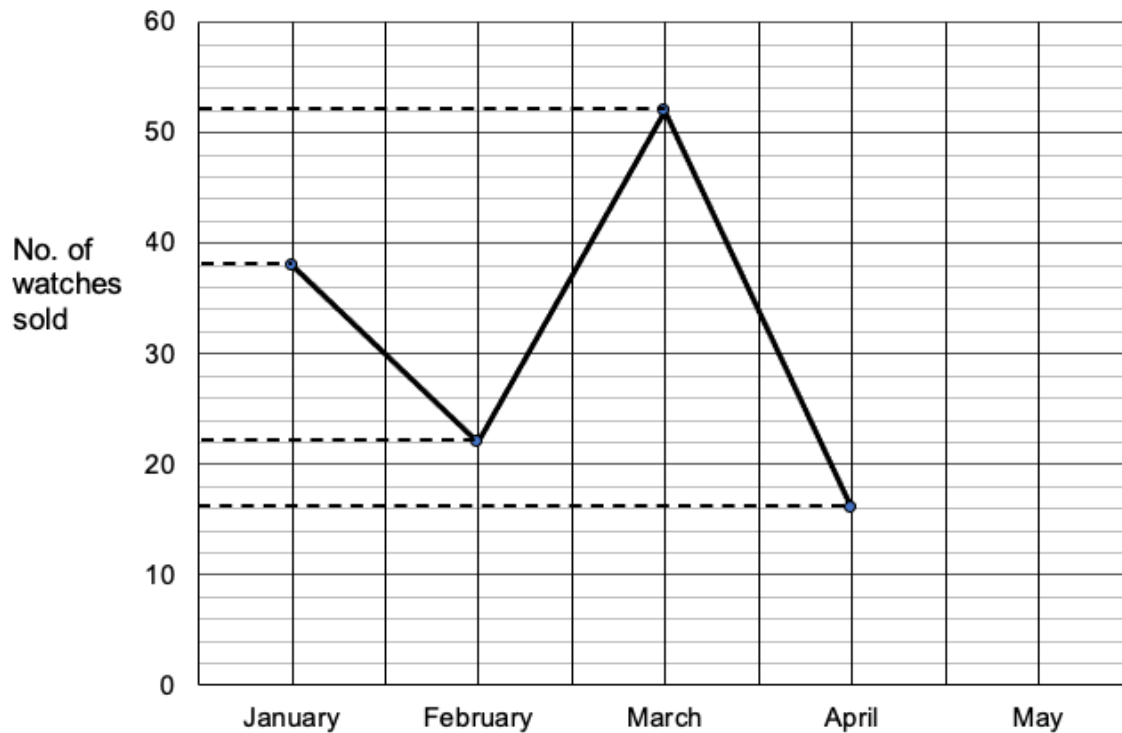
What time did her lesson end?



- A. 13 65
- B. 14 05
- C. 14 15
- D. 14 25

Question 14

The graph below shows the number of watches sold by a shop from January to April.



The total number of watches sold from January to April was 4 times the number of watches sold in May.

How many watches were sold in May?

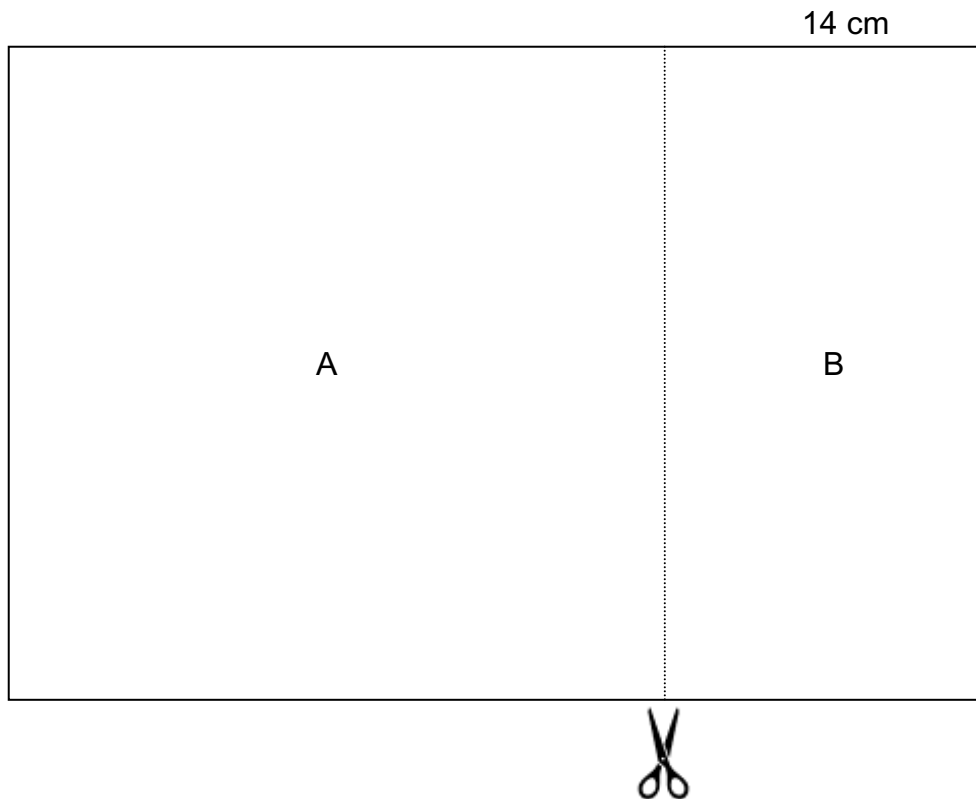
- A. 31
- B. 32
- C. 54
- D. 64

Question 15

A piece of paper is cut into Square A and Rectangle B.

The area of A is twice the area of B.

The breadth of Rectangle B is 14 cm.



What is the area of Square A?

- A. 28 cm^2
- B. 112 cm^2
- C. 336 cm^2
- D. 784 cm^2

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Section (B) (Questions 16 to 25 carry 4 marks each. Shade your answers in the Answer Entry Sheet (AES) provided. No marks will be deducted for wrong answers.)

Question 16

A stall had a promotion.



Mandy wanted to buy 50 muffins.

What was the least amount of money Mandy had to pay for all the 50 muffins?

Answer: \$ _____

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Question 17

Ashley is 10 years old and her mother is 46 years old.

In how many years' time will Ashley's mother be 4 times as old as Ashley?

Answer: _____ years

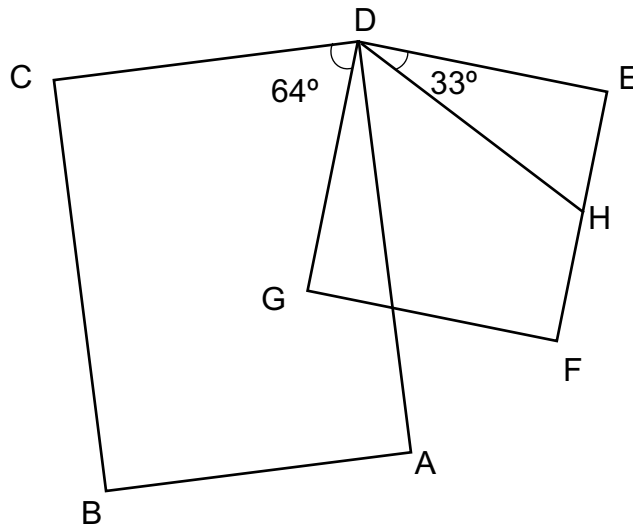
Question 18

In the figure below, ABCD is a rectangle and DEFG is a square.

$\angle CDG = 64^\circ$ and $\angle EDH = 33^\circ$.

DH is a straight line.

Find $\angle ADH$.



Answer: _____°

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Question 19

There were 163 ribbons in Box A and 115 ribbons in Box B.

Some ribbons were moved from Box A to Box B.

In the end, there were 26 more ribbons in Box A than Box B.

How many ribbons were there in Box A in the end?

Answer: _____

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Question 20

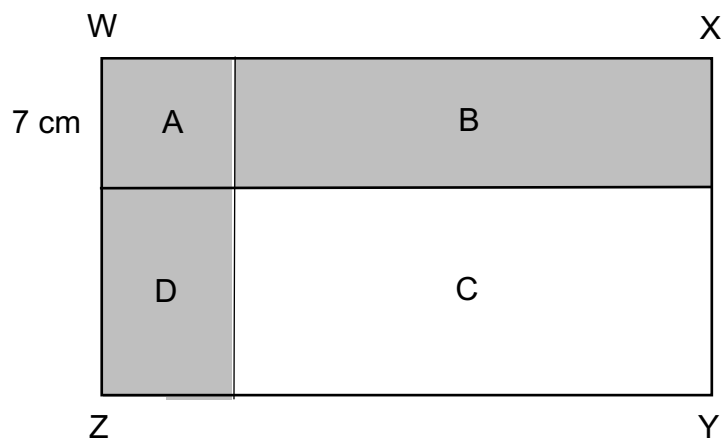
In the figure below, Square A and Rectangles B, C and D form the rectangle WXYZ.

The area of Rectangle B is twice the area of Rectangle D.

The area of the shaded part is 385 cm^2 .

Find the area of Rectangle C.

Give your answer in cm^2 .



Answer: _____ cm^2

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Question 21

Julia had some beads in a jar.

$\frac{1}{4}$ of the beads were red and the rest of the beads were green.

After Julia put another 318 red beads into the jar, the fraction of green beads in the jar became $\frac{3}{7}$.

What was the total number of beads in the jar at first?

Answer: _____

Question 22

David paid \$7374 for 3 laptops and 2 headphones.

Kumar paid \$5002 more than David for 5 laptops and 4 headphones.

What was the cost of 1 headphone?

Answer: \$ _____

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Question 23

The total mass of a box and a watermelon was 7 kg 34 g.

When some strawberries were added into the box, the total mass became 8600 g.

The watermelon was 3 times as heavy as all the strawberries added.

Find the mass of the box.

Give your answer in grams.

Answer: _____ g

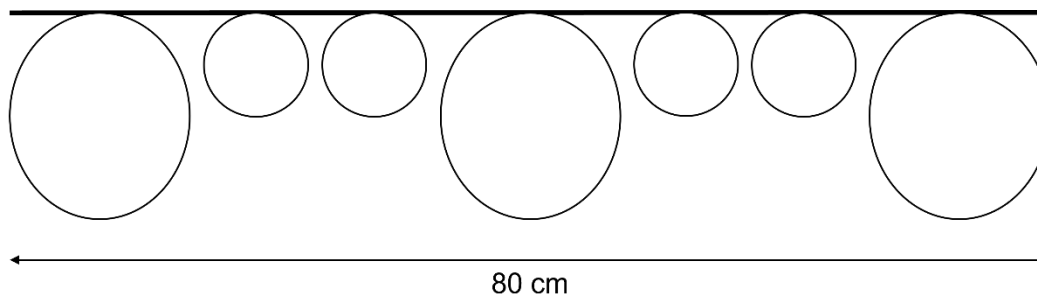
Question 24

Jamie was asked to decorate a classroom for a party.

The classroom was a square with a length of 6 m 40 cm.

She tied balloons as shown in the pattern below repeatedly on a string and hanged the string around the classroom once.

How many small balloons did she use to decorate the 4 sides of the classroom?



Answer: _____

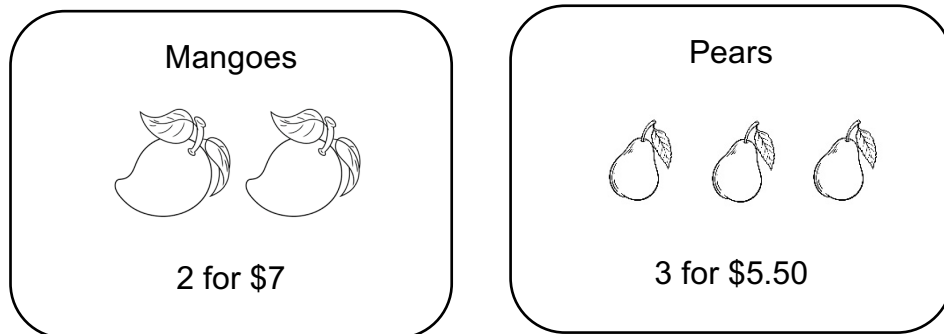
Question 25

At a fruit stall, mangoes are sold at 2 for \$7 and the pears are sold at 3 for \$5.50.

Mdm Fauziah bought the same number of mangoes and pears.

She paid \$160 in total.

How many mangoes did she buy?



Answer: _____ mangoes

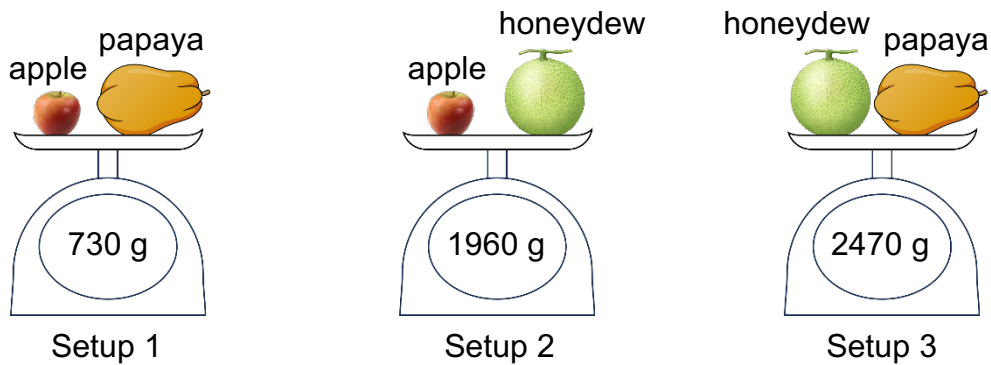
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Section (C) (Questions 26 to 31 carry 5 marks each. Shade your answers in the Answer Entry Sheet (AES) provided. No marks will be deducted for wrong answers.)

Question 26

Mr Lee had an apple, a papaya and a honeydew.

He placed the fruits in 3 different setups as shown below.



Each weighing scale shows the mass of the 2 fruits placed on it.

What was the mass of the honeydew in grams?

Answer: _____ g

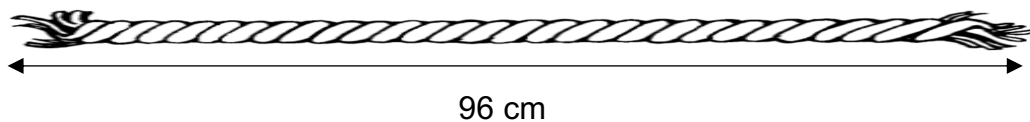
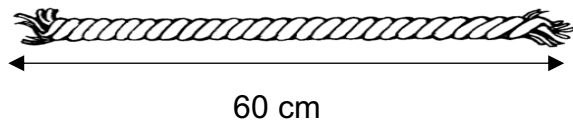
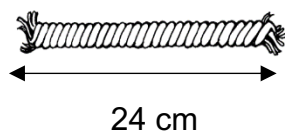
Question 27

Kenny has 3 pieces of ropes of length 24 cm, 60 cm and 96 cm.

He wants to cut them into smaller pieces of equal length without any leftovers.

Each smaller piece must be cut into the greatest possible length.

How many of such pieces of ropes of equal length can he get?



Answer: _____ cm

Question 28

Sam used Square X, Rectangle Y and Rectangle Z to form Figure A. What is the perimeter of Figure A?

Give your answer in cm.

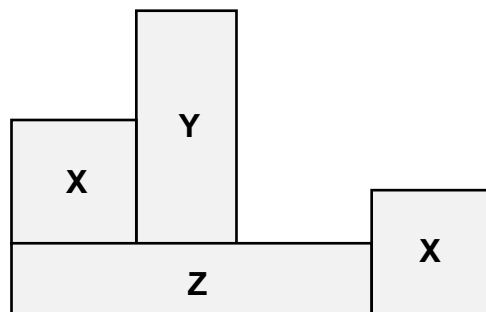
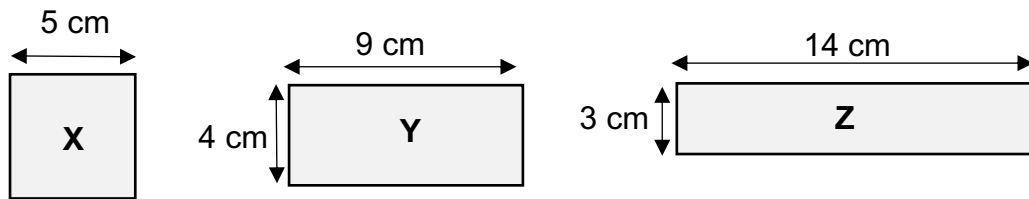


Figure A

Answer: _____ cm

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Question 29

A spider was climbing to the top of a garden wall.

It started from the bottom of the wall.

After climbing up $\frac{1}{3}$ of the wall, it began to rain.

During the rain, the spider slipped down 30 cm and stayed at the same spot until the rain stopped.

Then, the spider resumed to climb up the remaining $\frac{5}{6}$ of the height of the wall to reach the top.

What was the total height the spider had climbed before and after the rain?

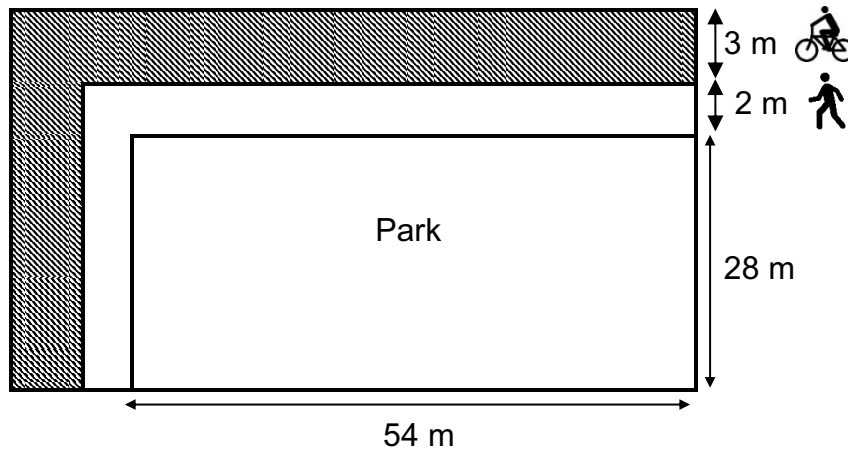
Give your answer in cm.

Answer: _____ cm

Question 30

The figure shows a rectangular park measuring 54 m by 28 m.

A pedestrian path () measuring 2 m wide and a cyclist path () measuring 3 m wide are built along two sides of the park.



It costs \$18 to construct each square metre of the cyclist path.

How much does it cost to construct the cyclist path?

Answer: \$ _____

Question 31

In a library, there were some story books at first.

Betty, the librarian, added another 17 story books and removed 36 of them. Then, Betty received 3 times as many new story books as what were left on the shelves.

She then arranged all the story books equally between 2 sections.

Each section had 458 story books in the end.

How many story books were in the library at first?

Answer: _____ books

Rough Working

Rough Working