**Maha Bodhi School**
**2022 Semestral Assessment 1**
**Primary 6**
**Mathematics**
**Paper 1**
(Booklet A)

Name : _____ (  )

Class : Primary 6 _____

Date : 10 May 2022

Total duration for Booklets A and B: 1 hour

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**INSTRUCTIONS TO CANDIDATES:**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is **NOT** allowed.

This booklet consists of **9** printed pages.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

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1. A school collected a total of $154 654 from a jumble sale.
Round this amount to the nearest hundred dollars.

(1) $155 000

(2) $154 700

(3) $154 600

(4) $154 000

2. Which one of the following fractions is the greatest?

(1) $\frac{2}{11}$

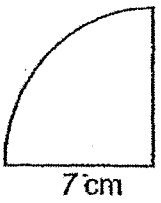
(2) $\frac{2}{9}$

(3) $\frac{2}{7}$

(4) $\frac{2}{5}$

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3. Find the perimeter of a quadrant with a radius of 7 cm. (Take $\pi = \frac{22}{7}$)



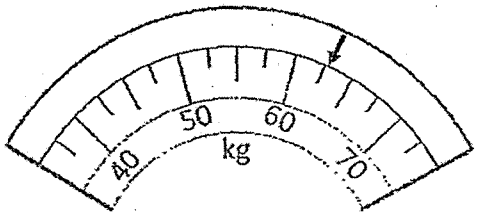

(1) 11 cm

(2) 22 cm

(3) 25 cm

(4) 44 cm

4. The figure shows part of a weighing scale.
Which one of the following is closest to the reading shown on the weighing scale?




(1) 61 kg

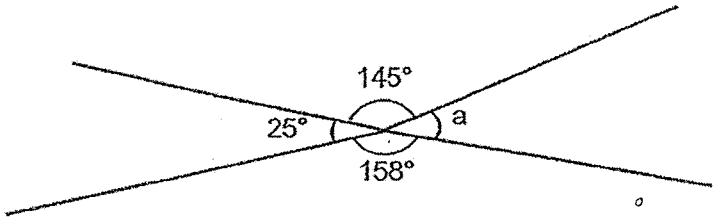
(2) 62 kg

(3) 63 kg

(4) 64 kg

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5. In the figure below, find $\angle a$.




(1) 22°

(2) 25°

(3) 32°

(4) 35°

6. There are two boys, Charlie and Tony.

Charlie's height is $\frac{4}{9}$ of their total height.

What is the ratio of Charlie's height to Tony's height?

(1) 4 : 5

(2) 5 : 4

(3) 4 : 9

(4) 9 : 4

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7. The table below shows the time taken by 4 runners to complete a race.

| Runner | Time in seconds |
|---|---|
| Allan | 16.2 |
| Benny | 15.4 |
| Charles | 16.4 |
| Dennis | 14.3 |

Who came in third in the race?

(1) Allan

(2) Benny

(3) Charles

(4) Dennis

8. Express $8\frac{1}{2}\%$ as a decimal.

(1) 0.085

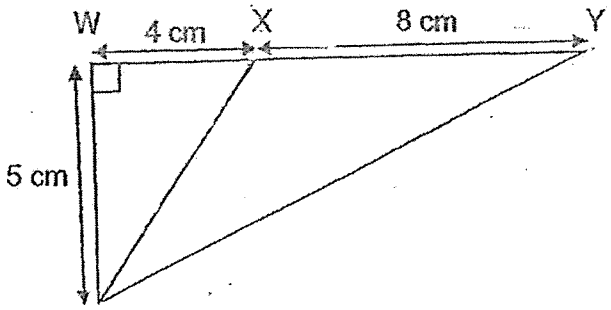
(2) 0.85

(3) 8.5

(4) 85

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9. In the figure below, WYZ and WXZ are triangles. WXY is a straight line. WX = 4 cm, XY = 8 cm and WZ = 5 cm.




Find the area of triangle XYZ.

(1) 60 $cm^2$

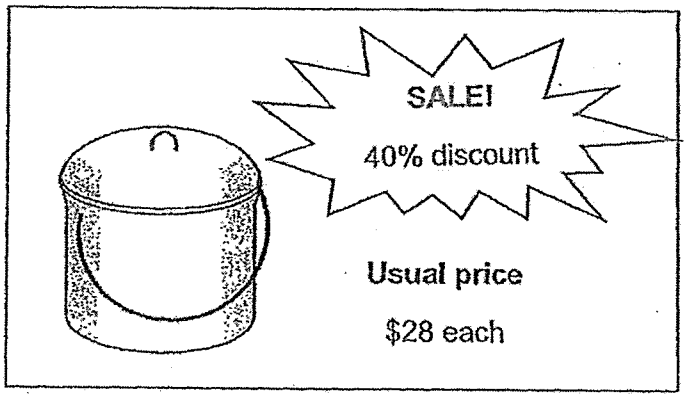
(2) 40 $cm^2$

(3) 30 $cm^2$

(4) 20 $cm^2$

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10. At a sale, the pot shown below is sold at a discount of 40%.




Jane bought 2 such pots. How much did she pay for them?

(1) $11.20

(2) $16.80

(3) $22.40

(4) $33.60

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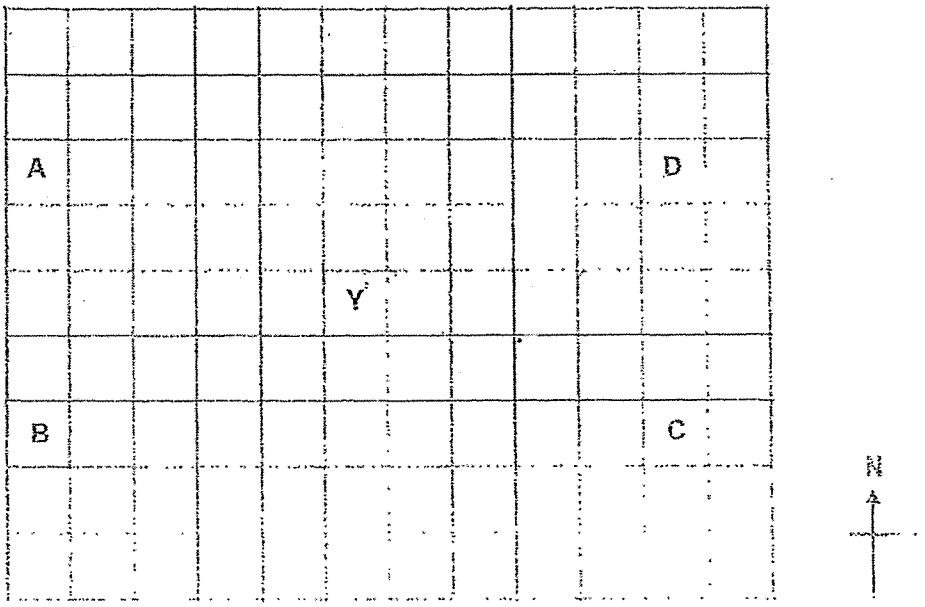
11. Meng took part in a treasure hunt and was given the following instructions:

Steps for the Treasure Hunt:

1. Start at Y.
2. Move 1 square towards north.
3. Move 2 squares towards south-east.
4. Move 3 squares towards north-east and you will find the treasure.

Note: For each step, you can move horizontally, vertically or diagonally.

Where would Meng find the treasure?




(1) A

(2) B

(3) C

(4) D

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12. One pack of candies cost $4.80.
Nurul and her 3 friends bought 5 such packs of candies and shared the cost equally.
How much did each of them pay?

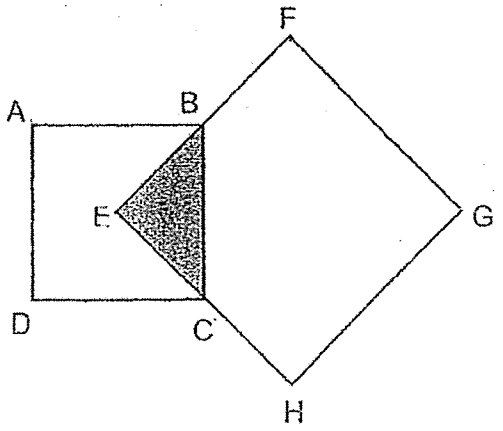
(1) $1.20

(2) $1.60

(3) $6.00

(4) $8.00

13. ABCD and EFGH are squares. EBF and ECH are straight lines.
25% of the small square and $\frac{1}{8}$ of the big square are shaded.




What is the ratio of the shaded area to the area of the whole figure?

(1) 1 : 6

(2) 1 : 10

(3) 1 : 11

(4) 1 : 12

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14. The table below shows the parking charges at a carpark.

| | |
|---|---|
| First Hour | \$1.20 |
| Every additional $\frac{1}{2}$ h or part thereof | \$0.50 |

Daniel parked his car from 11.00 a.m. to 6.05 p.m. at the carpark.
How much did he pay?

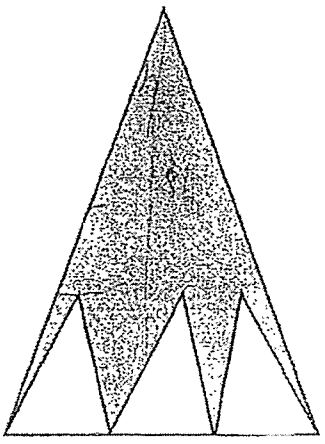
(1) \$7.20

(2) \$7.70

(3) \$8.20

(4) \$8.70

15. The figure below is made up of a big triangle and three small triangles.
The three triangles have the same base and height.
The height of the big triangle is thrice the height of each of the small triangles.
The area of the big triangle is 36 $cm^2$.
Find the shaded area.



(1) 12 $cm^2$

(2) 18 $cm^2$

(3) 24 $cm^2$

(4) 27 $cm^2$

---- End of Booklet A ----

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**Maha Bodhi School**
**2022 Semestral Assessment 1**
**Primary 6**
**Mathematics**
**Paper 1**
(Booklet B)

Name : _____ (  ) Marks: ____/25

Class : Primary 6 _____

Date : 10 May 2022

Total Duration for Booklets A and B: 1 hour

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**INSTRUCTIONS TO CANDIDATES:**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters.
6. The use of calculators is **NOT** allowed.

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Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (5 marks)

16. Find the value of $24 \div 3 + (21 - 6) \times 3$.

Ans: _____

17. Find the value of $\frac{1}{6} \div \frac{3}{4}$.
Give your answer as a fraction in the simplest form.

Ans: _____

18. Express 30 kg 65 g in kg.

Ans: _____ kg

/ 3



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19. Karen bought 1.04 ℓ of milk. She poured all the milk equally into 8 cups.

How much milk was poured into each cup? Give your answer in litres.

Ans: _____ _____ℓ

20. A photocopier prints 3 pages per second. How many pages can it print in 1 minute?

Ans: _____

/ 2

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Questions 21 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (20 marks)

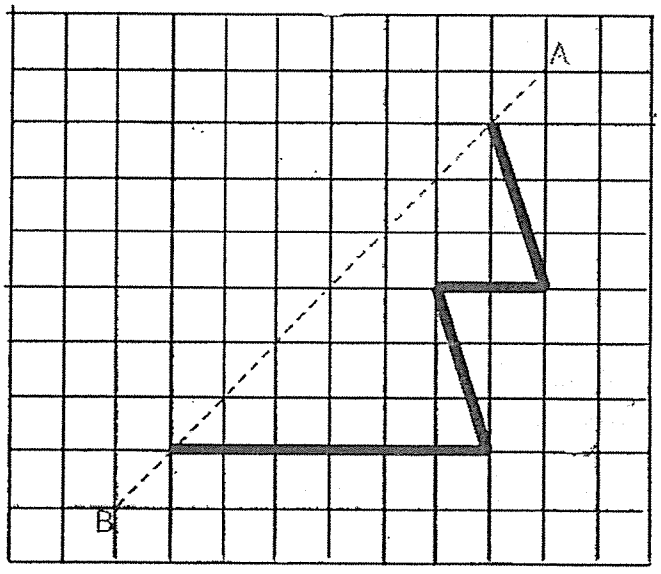
21. The table below shows the number of paper planes folded by four children.

| Name | Number of paper planes folded |
|---|---|
| Lilian | 13 |
| Halim | 14 |
| Bala | 15 |
| James | 0 |

Find the average number of paper planes folded by the children.

Ans: _____

22. Complete the figure on the square grid below so that the dotted line AB is the line of symmetry.




/ 4

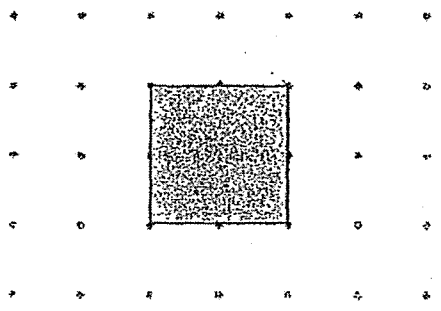
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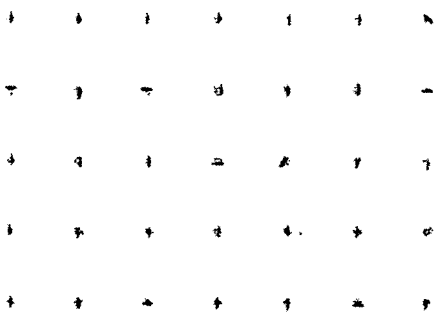
23. The ratio of the number of dancers in studio Y to the number of dancers in studio Z was 4 : 3. There were 60 dancers in studio Y.
How many dancers were there in studio Z?

Ans: _____

24. A square is drawn and shaded in the grid below.



A rectangle has an area that is twice the area of the square above.
Draw the rectangle in the grid below.



/ 4

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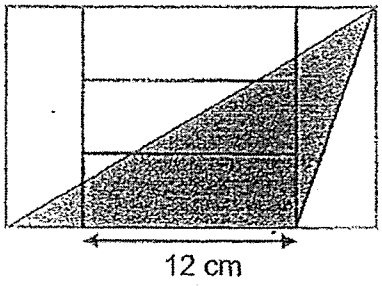
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25. There are some cookies in a tin.
The cookies can be put into bags of 6 or 9 with no cookies left over.
When the cookies are placed into bags of 10, there are 6 cookies left.

*Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick ( ✓ ) to indicate your answer.*

| Statement | True | False | Not possible to tell |
|---|---|---|---|
| There is an even number of cookies in the tin. | | | |
| There are exactly 36 cookies in the tin. | | | |

26. The figure below is made of 5 identical rectangles of length 12 cm.
Find the area of the shaded triangle.




Ans: _____ $cm^2$

/ 4

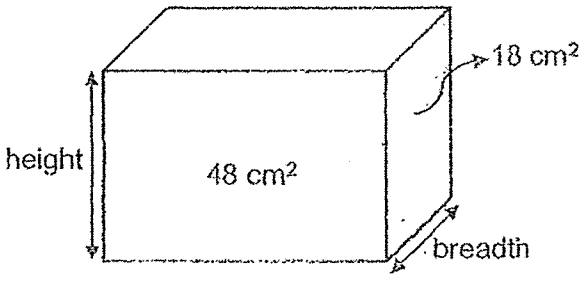


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27. At first, Annie collected 40% as many stamps as Sue.
When Sue gave Annie 45 stamps, both of them had an equal number of stamps.
How many stamps did Annie have at first?

Ans: _____

28. The figure below shows a cuboid.
The areas of the two rectangular faces are 48 $cm^2$ and 18 $cm^2$.
Its height is twice its breadth.
What is the volume of the cuboid?




Ans: _____ $cm^3$

/ 4

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29. The table below shows the number of plastic bottles and flattened boxes collected by three P4 classes. The table below also shows the average number of these items collected by the three classes.

| Class | Number of plastic bottles | Number of flattened boxes |
|---|---|---|
| 4C | 24 | 18 |
| 4D | 1[illegible] | (b) |
| 4E | (a) | [illegible]2 |
| Average | 14 | 19 |

(a) What is the least possible number of plastic bottles class 4E collected?

Ans: (a) _____

(b) What is the least possible number of flattened boxes class 4D collected?

/ 2

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30. There were some passengers on a train at first.

$\frac{1}{2}$ of the passengers alighted at the first station and 20 passengers came on board.

At the second station, $\frac{1}{4}$ of the passengers alighted.

There are 78 passengers on the train now.

How many passengers were there at first?

Ans: _____

/ 2

*--- End of Booklet B ---*

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# Maha Bodhi School
## 2022 Semestral Assessment 1
## Primary 6
## Mathematics
## Paper 2

Name : _____ (  )

Class : Primary 6_____

Date : 10 May 2022

Duration: 1 h 30 min

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**INSTRUCTIONS TO CANDIDATES:**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters.
6. The use of an approved calculator is allowed.

| Paper | Booklet | Marks Obtained | Max Marks |
|---|---|---|---|
| 1 | A | | 20 |
| | B | | 25 |
| 2 | - | | 55 |
| **Total** | | | **100** |

Parent's signature: _____

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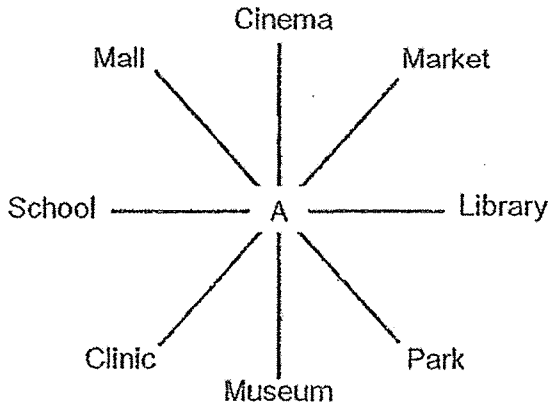
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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

Jimmy was standing at Point A. He was facing the Mall.

He turned 225° in the clockwise direction before making a $\frac{1}{4}$ - turn in the anti-clockwise direction. Where would he face in the end?




Ans: _____

2. What is the 149th digit in the number pattern?

1, 2, 0, 1, 0, 1, 2, 0, 1, 0, 1, 2, 0, 1, 0, 1, 2, 0, 1, 0, 1, ...

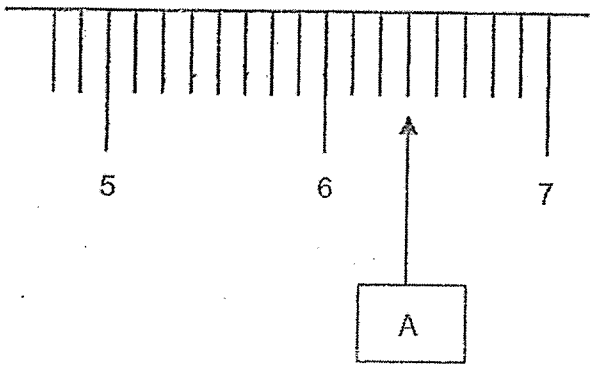
Ans: _____

/ 4

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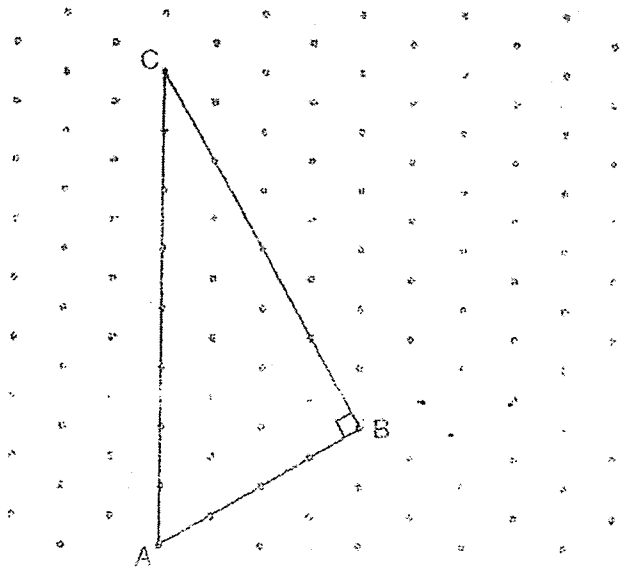
3. Express the value of A in decimal.




Ans: _____

4. The figure below shows a right-angled triangle, ABC, drawn on a grid.
BCD is another triangle where BD is half the length of BC.

(a) Draw triangle BCD such that it does not overlap with triangle ABC.




(b) Circle the word that describes triangle BCD correctly in the following statement.

Triangle BCD is a/an ( **equilateral** / **isosceles** / **right-angled** triangle.

/ 4

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5. The ratio of the number of hamsters to the number of rabbits in a pet shop is 3 : 2. The ratio of the number of rabbits to the number of birds in the pet shop is 3 : 5. What is the ratio of the number of birds to the number of hamsters to the number of rabbits in the pet shop?

Ans: _____

/ 2

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For questions **6** to **17**, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

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6. Aidan has 570 more paper clips than Ben.
When Aidan gave Ben 37 paper clips, Aidan had thrice as many paper clips as Ben.
How many paper clips did Ben have at first?

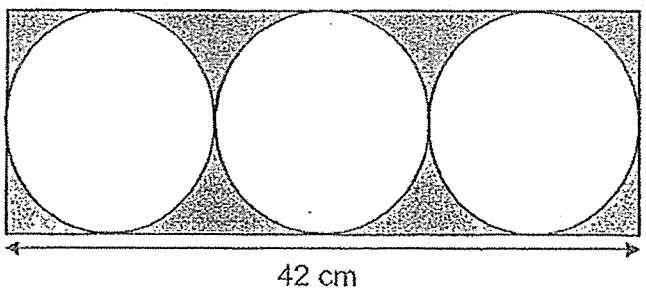
Ans: _____ [3]

/ 3

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7. The figure is made up of three identical circles in a rectangle.
The length of the rectangle is 42 cm. Find the total area of the shaded parts.
(Take $\pi = 3.14$)




Ans: _____ [3]

/ 3

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8. There are a total of 87 pupils in Primary 6 Joy and Primary 6 Kindness.

$\frac{3}{7}$ of pupils in Primary 6 Joy are girls. $\frac{3}{5}$ of pupils in Primary 6 Kindness are boys.

There is an equal number of girls in both classes.

How many boys are there in Primary 6 Joy and Primary 6 Kindness altogether?

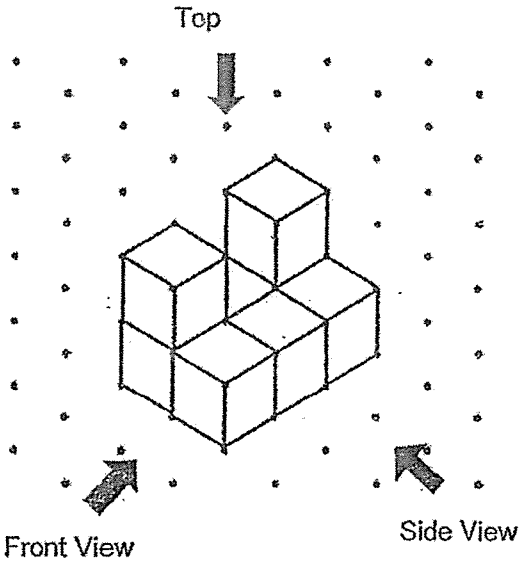
Ans: _____ [4]

/ 4

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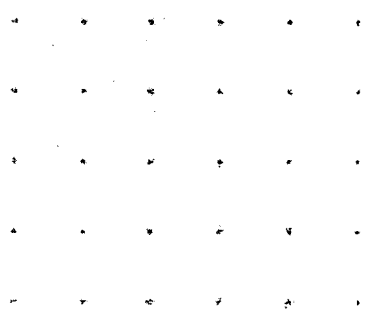
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9. Muthu stacked some 7 unit cubes together to form the solid below.

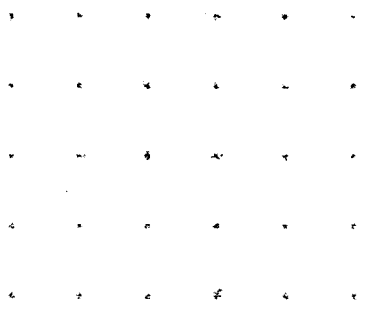



(a) Draw the top view and side view of the figure below. [2]

Top View



Side View



(b) Muthu wants to add some unit cubes to the figure above to form a cube.
How many more unit cubes does he need to form the smallest possible cube?

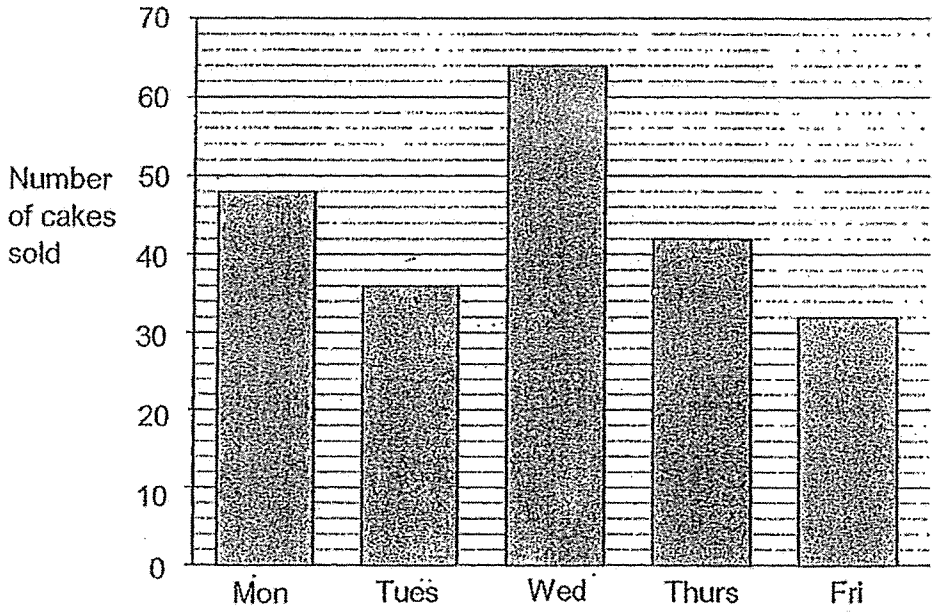
Ans: (b) _____ [2]

/ 4

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10. The bar graph below shows the number of cakes sold in a week.




The average amount of money collected from Monday to Saturday was $6.46 more than the average amount of money collected from Monday to Friday.
Each cake was sold for $0.85. How many cakes were sold on Saturday?

Ans: _____ [ 4 ]

/ 4

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11. $\frac{3}{16}$ of the bottled water in a shop were sold on Monday.

12 fewer bottles of water were sold on Tuesday than on Monday.

16 fewer bottles of water were sold on Wednesday than on Tuesday.

The number of bottles of water left in the supermarket was $\frac{1}{2}$ the number of bottles there was at first. How many bottles of water were there in the shop at first?

Ans: _____ [ 3 ]

/ 3

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12. Mr Tan paid $465.45 for 5 identical bags and 7 identical wallets.
3 identical wallets cost as much as 2 identical bags.
How much did 1 bag cost?

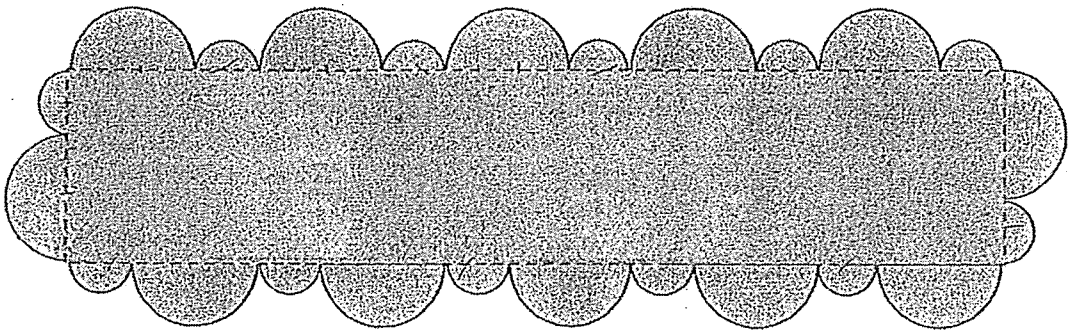
Ans: _____ [3]

/ 3

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13. The figure below is made up of a rectangle and a total of 6 big and 6 small circles. The circles have been cut into halves and arranged in the following pattern with no gaps in between. The area of the rectangle is 720 $cm^2$.
The radius of the big circle and the diameter of the small circle are equal.



Use the calculator value of $\pi$ to find the perimeter of the figure.
Round your answer to 2 decimal places.

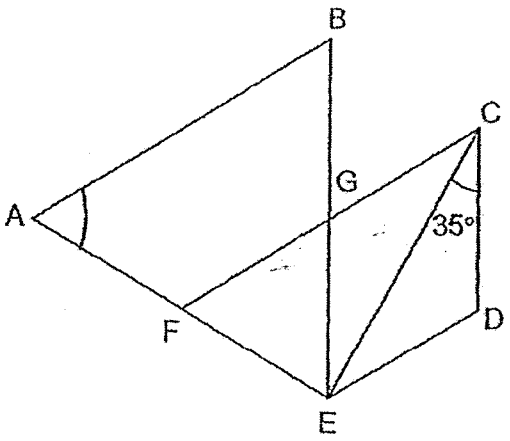
Ans: _____ [ 5 ]

/ 5

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14. In the figure below, CDEG is a rhombus. AB = AE, AB // FC and ∠ECD = 35°. AFE, BGE, and FGC are straight lines.




Find ∠BAE.

Ans: _____ _____ [3]

/ 3

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15. At first, the pupils in the hall were standing in 50 rows with an equal number of pupils in each row. The pupils moved and stood in 65 rows instead.
In the end, there were 6 fewer pupils in each row than before.

(a) How many pupils were there in each row at first?

Ans: _____ [3]

(b) How many pupils were there in the hall?

Ans: _____ [ 1 ]

/ 4

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16. 60% of the books in the Reading Corner were fiction books and the rest were non-fiction books. When more fiction and non-fiction books were added to the collection, the percentage of fiction books increased by 20% and the percentage of non-fiction books increased by 50%. In the end, there were 528 books in the Reading Corner. How many books were at the Reading Corner at first?

Ans: _____ [4]

/ 4

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17. The ratio of the number of 50-cent coins to the number of $1 coins Bella had was 1 : 3. After saving 25 more 50-cent coins and 15 more $1 coins, $\frac{2}{5}$ of the total number of coins she had were 50-cent coins.

(a) How many coins did Bella have at first?

Ans: (a) _____ [ 4 ]

(b) what was the total amount of money she had at first?

Ans: (b) _____ [ 1 ]

/ 5

------ End of Paper --------

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LEVEL : PRIMARY 6
SUBJECT : MATH
TERM : 2022 SA1

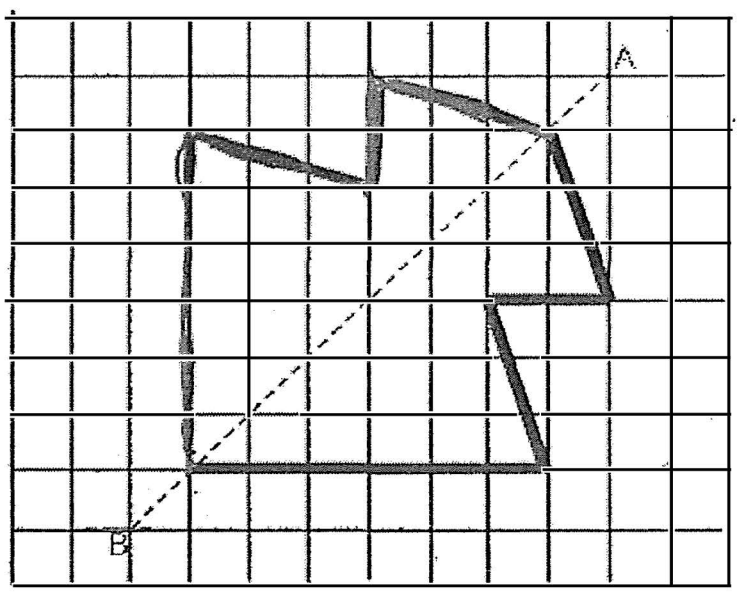
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## PAPER 1 BOOKLET A

| Q 1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 4 | 3 | 3 | 3 | 1 | 1 | 1 | 4 | 4 |

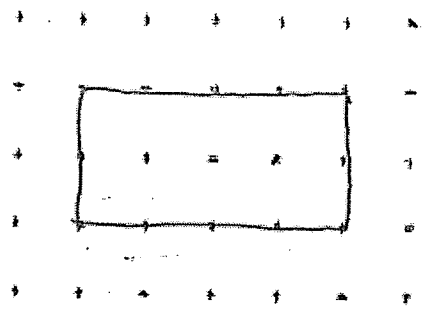
| Q 11 | Q12 | Q13 | Q14 | Q15 |
|---|---|---|---|---|
| 4 | 3 | 3 | 2 | 3 |

## PAPER 1 BOOKLET B

| | |
|---|---|
| Q16) | 53 |
| Q17) | 2/9 |
| Q18) | 30.065 |
| Q19) | 0.13L |
| Q20) | 3 x 60 = 180 |
| Q21) | 29 + 13 = 42<br>$\frac{42}{4} = 10.5$ |
| Q22) |  |



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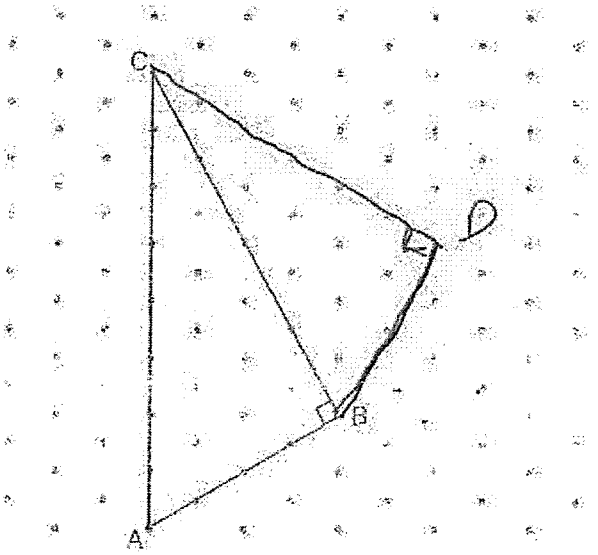
| | |
|---|---|
| Q23) | 4u → 60<br>1u→ 60 ÷ 4 = 15<br>3u→15 X 3 = 45 |
| Q24) |  |
| Q25) | True<br><br>Not possible to tell |
| Q26) | 12 ÷ 3 = 4<br>4 + 12 + 4 = 20<br>Area of ◢ = ½ x 20 x 12 = 120 cm2 |
| Q27) | 60 |
| Q28) | 6 x 8 x 3 = 144 cm3 |
| Q29) | a) 14 x 3 = 42<br>42 – 24 = 18<br>ANS: 0<br><br>b)19 x 3 = 57<br>57 – 18 = 39<br>39 – 32 = 7 |
| Q30) | 3u→78<br>4u→$\frac{78}{3}$ x 4 = 26 x 4 = 104<br><br>(104 – 20) x 2 = 168 |

## PAPER 2

| | |
|---|---|
| Q1) | Library |
| Q2) | 1 |
| Q3) | 6,375 |

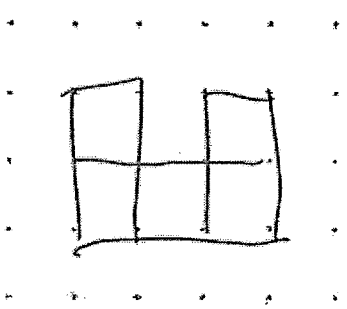
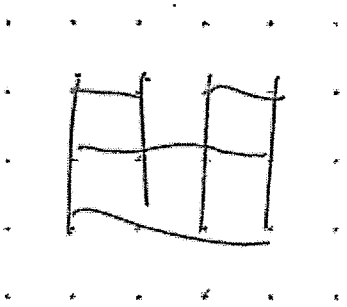


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| | |
|---|---|
| Q4) |  |
| Q5) | 10 : 9 : 6 |
| Q6) | 37 x 2 = 74<br>570 – 74 = 496<br>496 ÷ 2 = 248<br>248 – 37 = 211 |
| Q7) | 42 ÷ 3 14<br>42 x 14 = 588<br>14 ÷ 2 = 7<br>3 x 7 x 3.14 x 7 = 461.58<br>588 – 461.58 = 126.42 cm2 |
| Q8) | 15 + 14 = 29<br>87 ÷ 29 = 3<br>3 x (14 – 6) = 24<br>3 x (15 – 6 ) = 27<br>27 + 24 = 51 |



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| | |
|---|---|
| Q9) | Top View  Side View <br>a)<br>b)3 x 3 x 3 = 27<br>27 – 7 = 20 |
| Q10) | 48 + 36 + 64 + 42 + 32 = 222<br>222 x $0.85 = $188.70<br>$188.70 ÷ 5 = $37.74<br>$37.74 + $6.46 = $44.2<br>$44.2 x 6 = $265.20<br>$265.20 – $188.70 = $76.50<br>$76.50 ÷ $0.85 = 90 |
| Q11) | 9units – 12 – 12 – 16 = 8 units<br>9 units – 40 = 8 units<br>1 unit = 40<br>40 x 16 = 640 |
| Q12) | $465.45 x 3 = $396.35 →15b + 21w<br>21w ÷ 3 = 7<br>7 x 2 = 14b<br>15b + 14b = 29b<br>$1396.35 ÷ 29 = $48.15 |
| Q13) | 720cm2 ÷ 5 = 144cm2<br>144cm2 = 12cm x 12cm<br>12cm ÷ 3 = 4cm<br>D of big circle = 4cm x 2 = 8cm<br>(6 x πx 4cm) + (6 x π x 8cm ) ≈ 226.19 cm |
| Q14) | <EGC = 180° – 2(35°) = 110° = FGB<br><ABE = 180° – 110° = 70°<br><BAE = 180° – (70° – 70° ) = 40° |



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| | |
|---|---|
| Q15) | a)50 x 6 = 300<br>$\frac{300}{15} = 20$<br><br>20 + 6 = 26<br><br>b)26 x 50 = 1300 pupils |
| Q16) | 7.2 + 6 = 13.2<br>528 ÷ 13.2 = 40<br>6 + 4 = 10<br>40 x 10 = 400 |
| Q17) | a)3u + 75 = 6u + 30<br>3u = 75 – 30 = 45<br>45 ÷ 3 = 15<br>15 x 4 = 60<br>b)15 x 0.50 + 3 x 15 x 1 = $52.50 |



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