

SINGAPORE CHINESE GIRLS' PRIMARY SCHOOL

FIRST SEMESTRAL ASSESSMENT 2005

MATHEMATICS

SAT

Name: _____ ()

Class: Primary 6

BOOKLET A

15 questions

25 marks

Total Time For Booklets A and B: 2 h 15 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

P1

Name: _____ ()

Class : Primary 6

Booklet A (25 marks)

Questions 1 to 5 carry 1 mark each. Questions 6 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). Shade the correct oval (1, 2, 3 or 4) on the **Optical Answer Sheet**.

1. What is the sum of 18 hundreds and 18 hundredths?

- (1) 180.18 (3) 1 800.018
(2) 180.108 (4) 1 800.18

2. Kim has 5 fifty-cent coins and 13 five-cent coins. How much money does ~~he~~ she have?

- (1) \$2.65 (3) \$3.15
(2) \$3.05 (4) \$3.65

3. A rectangular field 15 m ~~and~~ ^{and} long 4 m wide has to be fenced. How much fencing material is needed?

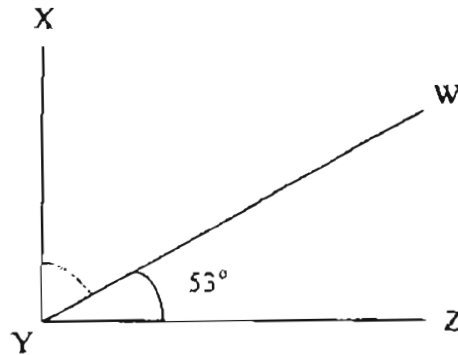
- (1) 19 m (3) 38 m
(2) 34 m (4) 60 m

4. The following chart shows the time taken by 4 runners to complete a 100-metre race. Who was the fastest?

Runners	Time Taken
Alice	13.8s
Bala	13.09s
Cui Ping	13.88s
Davi	13.15s

- (1) Alice (3) Cui Ping
(2) Bala (4) Davi

5. The figure below is not drawn to scale, $\angle XYZ$ is a right angle and $\angle WYZ$ is 53° . Find $\angle XYW$.



- (1) 27° (3) 127°
 (2) 37° (4) 147°

6. Find the value of $4 \div 4 - 4 \div 4 \div 4$.

- (1) 1 (3) $\frac{1}{4}$
 (2) $\frac{1}{16}$ (4) $\frac{1}{64}$

7. The diameter of a circle is a multiple of 7 but is less than 20. Which of the following is the area of this circle? (Take $\pi = \frac{22}{7}$)

- (1) 22 cm^2 (3) 154 cm^2
 (2) 44 cm^2 (4) 616 cm^2

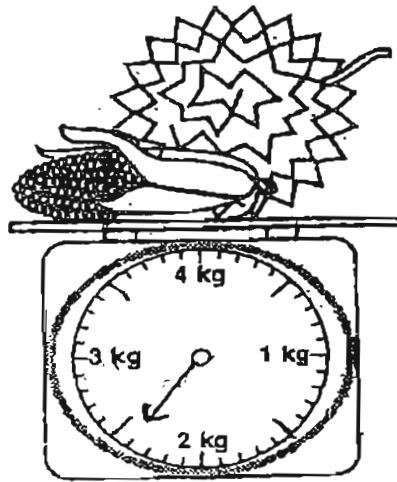
8. Nora spent \$15.25 on some pens and pencils. She bought 5 more pens than pencils. If each pen costs \$1.05 and each pencil costs 95¢, how many pencils did she buy?

- (1) 5 (3) 15
 (2) 10 (4) 20

9. Tom took $\frac{3}{4}$ h to do his Mathematics homework and $\frac{1}{3}$ as much time to complete his journal. How much time did he spend on his homework?

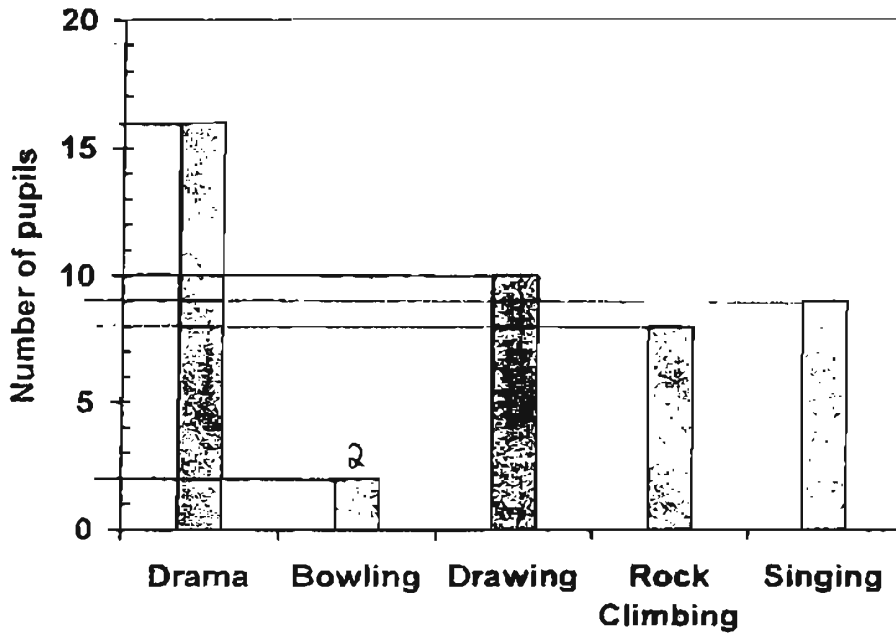
- (1) 1 h
(2) 15 min
(3) 3 h
(4) 1 h 35 min

10. The diagram below shows the picture of a durian and a corn. The mass of the corn is $\frac{1}{11}$ that of the durian. Find the mass of the corn.



- (1) 22 g
(2) 200 g
(3) 2 000 g
(4) 2 200 g

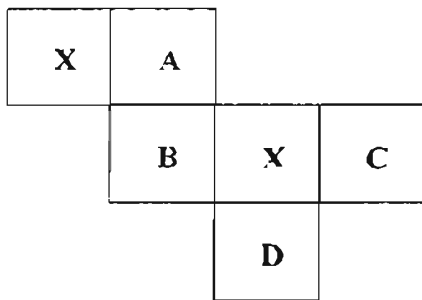
The graph below shows the hobbies of pupils in a class.



11. Express the number of pupils in the class who enjoy rock climbing and bowling as a ratio to the total number of pupils in the class?

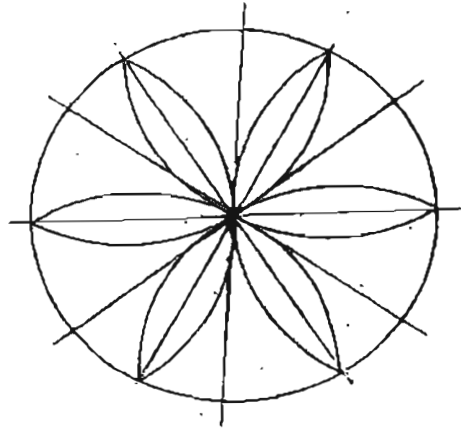
- | | | | |
|-----|-------|-----|-------|
| (1) | 2 : 7 | (3) | 3 : 5 |
| (2) | 2 : 9 | (4) | 3 : 4 |

12. The figure below is a net of a cube. It has matching pictures on its opposite faces. For example, the squares marked X are a matching pair. Name another matching pair.



- | | | | |
|-----|---------|-----|---------|
| (1) | A and C | (3) | C and D |
| (2) | A and D | (4) | B and D |

13. How many lines of symmetry can be found on the figure below?



- (1) 6
(2) 5
- (3) 3
(4) 4
14. Ahmad walked at a speed of 6km/h. His grandfather walks at half Ahmad's speed. How much longer would Ahmad's grandfather take to cover a distance Ahmad covered in 40 minutes?
- (1) 20 min
(2) 40 min
- (3) 60 min
(4) 80 min
15. In a pet shop, 35 % of the animals are dogs, 40% are rabbits while the rest are hamsters. What is the ratio of the number of hamsters to the number of animals in the pet shop?
- (1) 7 : 20
(2) 7 : 5
- (3) 2 : 5
(4) 1 : 4

NAME : _____

DATE : _____

CLASS : _____

WRITE		SHADE OVALS									
I N D E X											
		(4)	(5)	(6)	(7)	(8)	(9)				
N U M B E R											
		(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)

SUBJECT: _____

EXAMPLE: IF YOU THINK THE 2ND OPTION IS THE CORRECT ANSWER SHADE THE OVAL (2) LIKE THIS:



- | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| 1 | (1) | (2) | (3) | (4) | 21 | (1) | (2) | (3) | (4) | 41 | (1) | (2) | (3) | (4) |
| 2 | (1) | (2) | (3) | (4) | 22 | (1) | (2) | (3) | (4) | 42 | (1) | (2) | (3) | (4) |
| 3 | (1) | (2) | (3) | (4) | 23 | (1) | (2) | (3) | (4) | 43 | (1) | (2) | (3) | (4) |
| 4 | (1) | (2) | (3) | (4) | 24 | (1) | (2) | (3) | (4) | 44 | (1) | (2) | (3) | (4) |
| 5 | (1) | (2) | (3) | (4) | 25 | (1) | (2) | (3) | (4) | 45 | (1) | (2) | (3) | (4) |
| 6 | (1) | (2) | (3) | (4) | 26 | (1) | (2) | (3) | (4) | 46 | (1) | (2) | (3) | (4) |
| 7 | (1) | (2) | (3) | (4) | 27 | (1) | (2) | (3) | (4) | 47 | (1) | (2) | (3) | (4) |
| 8 | (1) | (2) | (3) | (4) | 28 | (1) | (2) | (3) | (4) | 48 | (1) | (2) | (3) | (4) |
| 9 | (1) | (2) | (3) | (4) | 29 | (1) | (2) | (3) | (4) | 49 | (1) | (2) | (3) | (4) |
| 10 | (1) | (2) | (3) | (4) | 30 | (1) | (2) | (3) | (4) | 50 | (1) | (2) | (3) | (4) |
| 11 | (1) | (2) | (3) | (4) | 31 | (1) | (2) | (3) | (4) | 51 | (1) | (2) | (3) | (4) |
| 12 | (1) | (2) | (3) | (4) | 32 | (1) | (2) | (3) | (4) | 52 | (1) | (2) | (3) | (4) |
| 13 | (1) | (2) | (3) | (4) | 33 | (1) | (2) | (3) | (4) | 53 | (1) | (2) | (3) | (4) |
| 14 | (1) | (2) | (3) | (4) | 34 | (1) | (2) | (3) | (4) | 54 | (1) | (2) | (3) | (4) |
| 15 | (1) | (2) | (3) | (4) | 35 | (1) | (2) | (3) | (4) | 55 | (1) | (2) | (3) | (4) |
| 16 | (1) | (2) | (3) | (4) | 36 | (1) | (2) | (3) | (4) | 56 | (1) | (2) | (3) | (4) |
| 17 | (1) | (2) | (3) | (4) | 37 | (1) | (2) | (3) | (4) | 57 | (1) | (2) | (3) | (4) |
| 18 | (1) | (2) | (3) | (4) | 38 | (1) | (2) | (3) | (4) | 58 | (1) | (2) | (3) | (4) |
| 19 | (1) | (2) | (3) | (4) | 39 | (1) | (2) | (3) | (4) | 59 | (1) | (2) | (3) | (4) |
| 20 | (1) | (2) | (3) | (4) | 40 | (1) | (2) | (3) | (4) | 60 | (1) | (2) | (3) | (4) |

SCORE: 21/25 (84%)

7/8

SINGAPORE CHINESE GIRLS' PRIMARY SCHOOL

FIRST SEMESTRAL ASSESSMENT 2005

MATHEMATICS

Name: _____ ()

Class: Primary

BOOKLET B

35 questions

75 marks

Total Time For Booklets A and B: 2 h 15 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Name: _____ ()

Do not write
in this space

Class : Primary 6

Booklet B (20 marks)

Questions 16 to 35 carry 1 mark each. Write your answers in the spaces provided.
Give your answers in the units stated.

16. Find the value of $20 - 8 \div 2 + (3 \times 3)$.

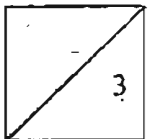
Ans: _____

17. Round off 89 953 to the nearest hundred.

Ans: _____

18. There are 5 fewer roses than ^{lilies} ~~liles~~. There are 7 more ~~tulps~~ tulips than roses.
If the florist has 30 flowers altogether, how many roses are there?

Ans: _____



19. Arrange the following in ascending order.

$$\frac{7}{8}, \quad \frac{1}{5}, \quad 0.25, \quad \frac{1}{10}$$

Ans: _____

20. In each box of 24 test-tubes, $\frac{1}{8}$ was defective. How many boxes of test-tubes must Ms Lee buy for her class of 25 pupils if each pupil was to have one test-tube each?

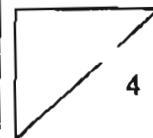
Ans: _____

21. $\frac{3}{10}$ of a class were absent on Monday. $\frac{3}{5}$ of the class were girls. If 15 pupils were absent, how many girls were there in the class?

Ans: _____

22. A new machine works 100 times as fast as an old one. If the new machine produces 3 050 toothpicks every half an hour, how many toothpicks did the old machine produce per half an hour ?

Ans: _____



23. Shoba spent \$ 19.05 on pet food. She gave the cashier two five-dollar notes and one ten-dollar note. What was her change?

Ans: \$ _____

24. A container can hold up to 50 kg of oil. 35 kg of oil was poured into the container. What percentage of the container is unused?

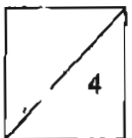
Ans: _____

25. An aquatic tank measuring 10 m long, 7 m wide and 9 m high is to be filled with 2 m cubes. Find the maximum number of cubes that can be put in it.

Ans: _____

26. A tailor needed to add trimmings to a circular cushion cover. If the diameter of the cover is 35 cm, how much trimmings would she need? (Take $\pi = \frac{22}{7}$)

Ans: _____ m



Do not write
in this space

27. A gardener needed to cover a plot of land 20 m by 14 m with soil. Find the area covered by the soil.

Ans: _____ m²

28. Joan is 2 times as old as her brother. She is now 20 years old. How old will her brother be in two years' time?

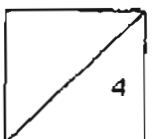
Ans: _____ years

29. A new elastic band is 70 cm long. The band stretches 3 cm with every 20 g attached to it. How long would the band be if a weight of 100 g is hung on it?

Ans: _____ cm

30. At a food fair, 60% of the food sold were chicken wings. The rest were fishballs. If there were 80 fishballs, how many chicken wings were sold?

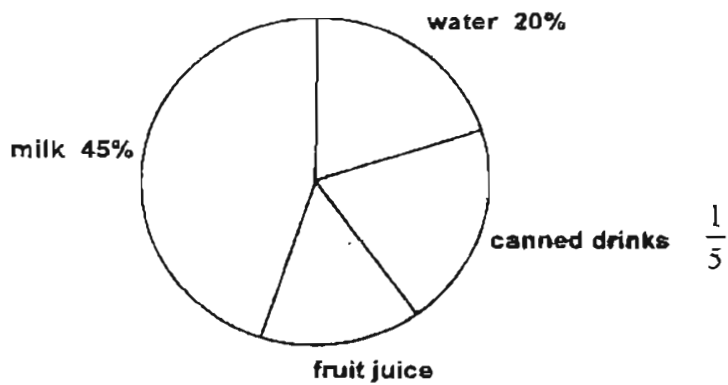
Ans: _____



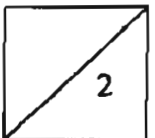
31. A dress is $\frac{1}{5}$ as heavy as a fur coat. If the fur coat weighs 33 kg, find the mass of the dress.

Ans: _____ g

32. The pie chart below shows the types of drinks consumed by a class of 20 pupils during recess. Find the number of pupils who drank fruit juice.

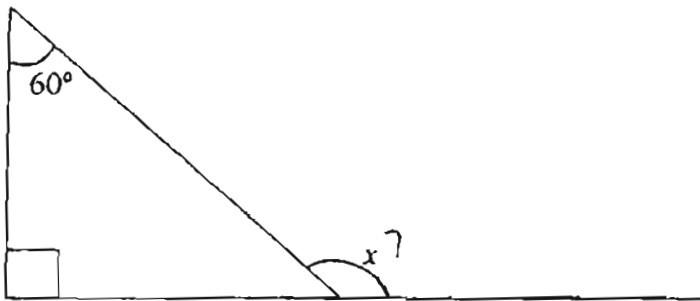


Ans: _____



33. In the diagram below, find $\angle x$.

Do not write
in this space



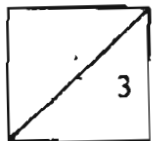
Ans: _____^o

34. A wheel which has a circumference of 75 cm has a speed of 2 revolutions per second. Find the distance covered in 10 seconds.

Ans: _____ m

35. Tom saves $\frac{1}{4}$ as much money as Jerry. Their total savings is \$50. How much money must Jerry give to Tom for Tom to have $\frac{2}{3}$ as much money as him?

Ans: \$ _____



Name: _____ ()

Class : Primary 6

Booklet B (55 marks)

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For each question from 36 to 50, show your working clearly in the space below each question and write your answer in the spaces provided.

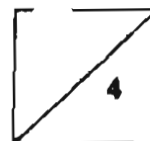
The number of marks available is shown in brackets [] at the end of each question or part-question.

-
36. 9 girls planted an average of 25 plants. When 7 boys joined them, they planted 20 more plants than the girls. Find the average number of plants planted by the

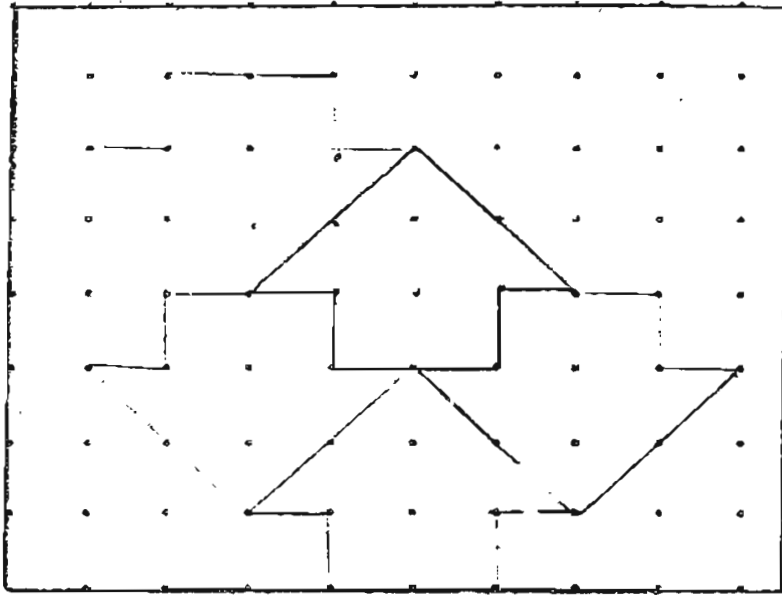
Ans: _____ [2]

-
37. In a class of 32 girls, $\frac{1}{2}$ of them have long hair and $\frac{3}{4}$ of them wear earrings. What is the the greatest possible number of girls who have long hair and wear earrings?

Ans: _____ [2]

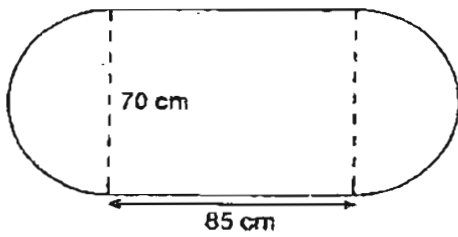


38. Tessellate 4 times around the given unit shape.

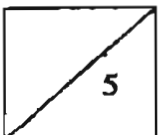


[2]

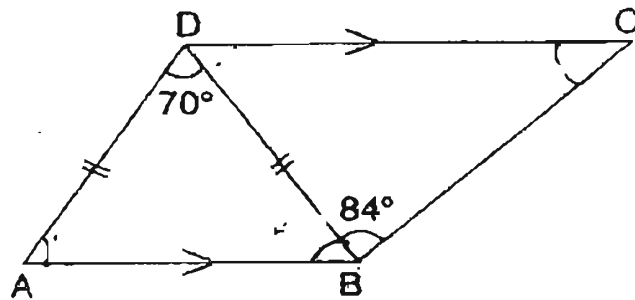
39. The figure below shows a table top. Find its area. (Take $\pi = \frac{22}{7}$)



Ans: _____

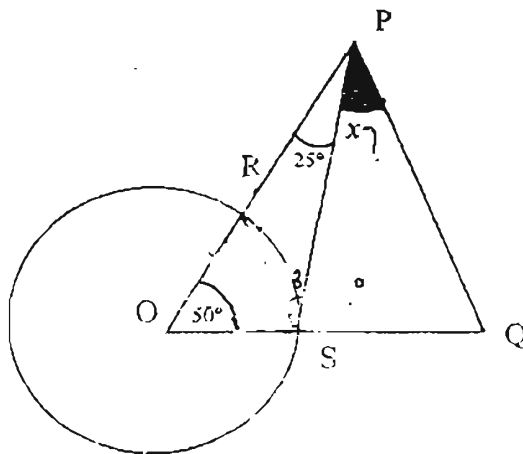


40. In the figure below, AB is parallel to DC and AD = BD. Find $\angle BCD$.



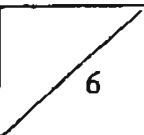
Ans _____ [3]

41. The figure below shows a circle and a triangle OPQ. PQ is parallel to RS. $\angle ROS = 50^\circ$. $\angle OPS = 25^\circ$. Find $\angle x$.

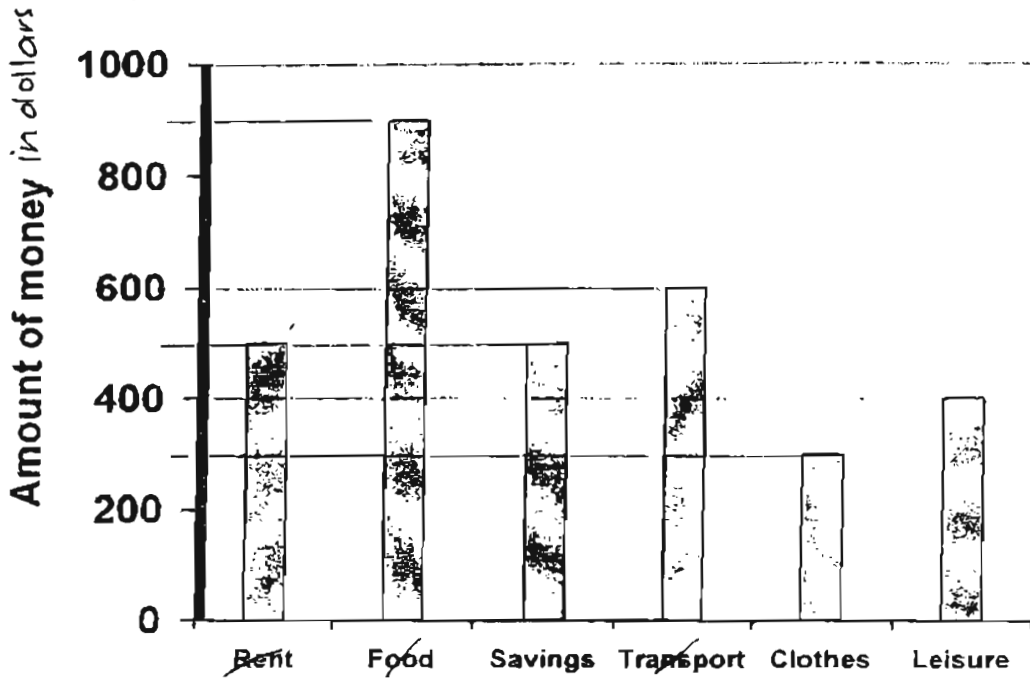


Ans _____ [3]

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42. The graph below shows the monthly expenditure of John.



- a) John spent the least on _____ .
- b) What percentage of John's income was spent on rent, transport and food?

Ans: a) _____ [1]

b) _____ [3]



43. There were 600 black and white sticks in a box. There were 80 more white sticks than black ones. When 48 black sticks were used and some more white sticks were bought, the number of white sticks became 3 times as many the number of black ones. How many white sticks were bought?

Do not write
in this space

Ans: _____ [4]



44. The table below shows the charges for the purchase of a certain type of oil.

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Quantity	Cost (\$)
First 1000 cm ³	0.03 per cm ³
Next 1000 cm ³	0.15 per cm ³
Additional 1 cm ³ above 2000 cm ³	0.30 per cm ³

- a) Find the cost of 2 300 cm³ of oil.
b) If there is a charge of 5% GST, what is the total bill ?

Ans: (a) _____ [2]

(b) _____ [2]



45. Amy, Betty and Cathy went shopping. At the end of the day, Amy spent $\frac{1}{5}$ of the total amount spent by the three girls. The ratio of what Betty had spent to the amount that Cathy had spent is 7:5. If the three girls had spent \$960.

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(a) how much more money did Betty spend than Amy?

(b) find the ratio of the amount spent by Cathy to the total amount spent by the three girls.

Ans: (a) _____ [3]

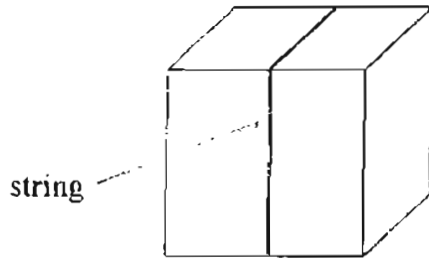
(b) _____ [1]



46. A string of length 10y cm is cut into 2 parts. One piece of the string is 8 cm shorter than the other piece.

(a) Find the shorter piece.

(b) If the string is not cut, it can ~~be~~ go round a cube ~~exactly~~ ^{exactly} twice. What is the length of one side of the cube?



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Ans: (a) _____ [2]

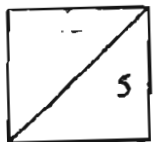
(b) _____ [2]



47. Sheela bought some toys. $\frac{4}{9}$ of them cost \$10 each. $\frac{2}{3}$ of the remaining toys cost \$5 each and the rest cost \$2 each. If she had bought 10 \$2 toys, how much did she spent altogether?

Do not write
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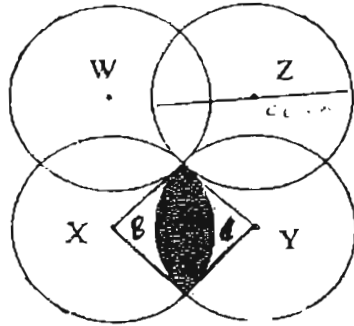
Ans: _____ [5]



48. The figure below shows 4 ponds which overlap each other. W, X, Y and Z are the centres of each pond. The diameter of each pond is 40m.

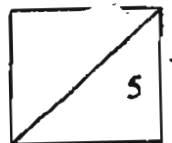
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- (a) Find the radius of each pond.
 (b) Find the area of the shaded part. (Take $\pi = 3.14$)



Ans : (a) _____ [1]

(b) _____ [4]



49. Mrs Mala was travelling from Crystal Town to Jade Town ^{at a uniform speed}.
 A bus travelling at a uniform speed of 60 km/h, headed the same way.
 After completing $\frac{4}{9}$ of her journey, Mrs Mala passed the bus.
 4 hours later, Mrs Mala arrived at Jade Town while the bus was still 10 km away from it.

Do not write
in this space

- (a) How far was Jade Town from Crystal Town?
 (b) At what time did Mrs Mala leave Crystal Town if she had reached Jade Town at 3.00 pm?

Ans: (a) _

_____ [2]a

(b)

_____ [3]a



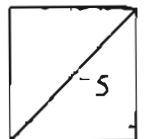
50. A chef baked 120 apple and some pear tarts.
The number of apple tarts is 60% that of the number of pear tarts.
After he had sold an equal number of each type of tart,
the ratio of the number of apple tarts to the number of pear tarts became 3 : 8.

- (a) How many tarts did he sell?
(b) Find the percentage of unsold tarts.

Do not write
in this space

Ans (a) _____ [3]

(b) 50% _____ [2]



—END OF PAPER—

16. Ans: 25
17. Ans: 90000
18. Ans: 6 Roses 46) a) $(5y-4)$ cm
19. $\frac{1}{10}, \frac{1}{5}, 0.25, \frac{7}{8}$ b) $\frac{5y}{4}$ cm
20. 2 boxes 47) \$ 360 altogether
21. 30 girls
22. 30.5 toothpicks 48) (a) 20 cm
23. 0.95 (b) 228 cm²
24. 30%
25. 60 Cubes 49) (a) 450 km away
26. 1.1 (b) 7.48 a.m
27. 280 m²
28. 12 years 50) (a) 144 tarts
29. 85 cm (b) 55% unsold.
30. 120 chicken wings.
31. 660 g
32. 3 pupils
33. 150°
34. 15 m
35. \$10
36. 35 plant
37. 16 girls
39. 9800 cm²
40. 41°
41. 40°
42. Clothes
43. (a) clothes
(b) 62.5%
43. 296 white sticks.
44. (a) \$270
(b) \$283.50
45. (a) \$256 more
(b) 1:3