SINGAPORE CHINESE GIRLS' PRIMARY SCHOOL

FIRST SEMESTRAL ASSESSMENT 2005

MATHEMATICS

SA1

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.

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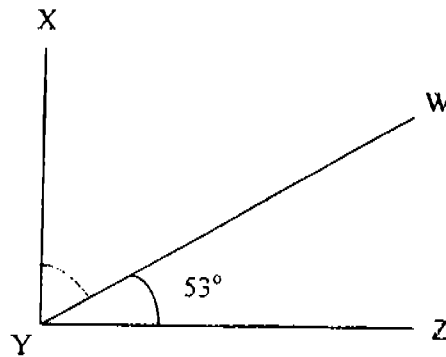
(1)   19 m   (3)   38 m
(2)   34 m   (4)   60 m

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 $\angle XYW$.

X

W

53°

Y   Z

(1)   27°   (3)   127°
(2)   37°   (4)   147°

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

(1)   1   (3) $\dfrac{1}{4}$

(2) $\dfrac{1}{16}$ (4) $\dfrac{1}{64}$

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 $\pi = \dfrac{22}{7}$)

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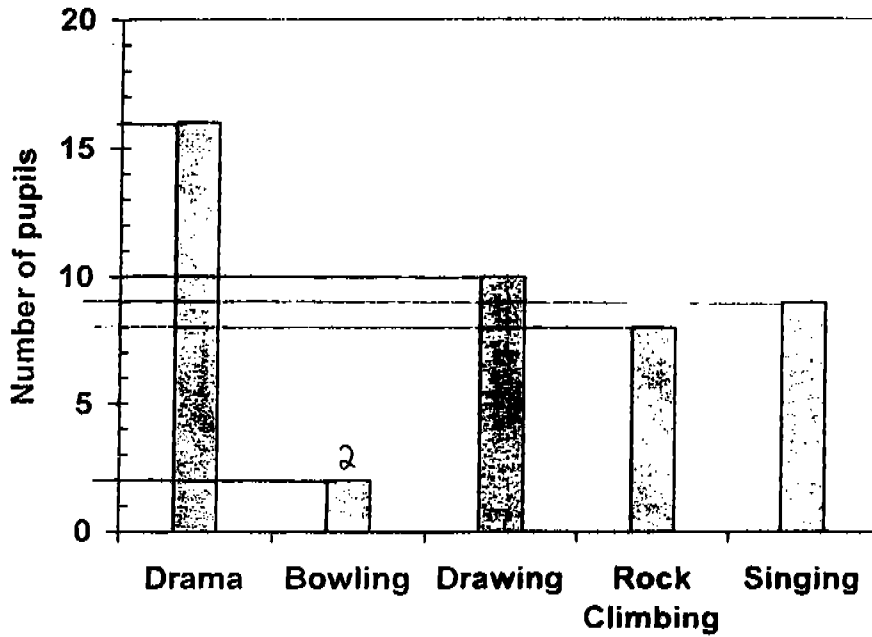   (2)   15 min   (4)   1 h 35 min

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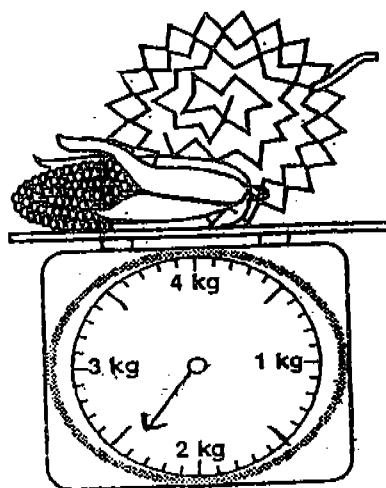
   (1)   22 g   (3)   2 000 g
    (2)   200 g   (4)   2 200 g

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.
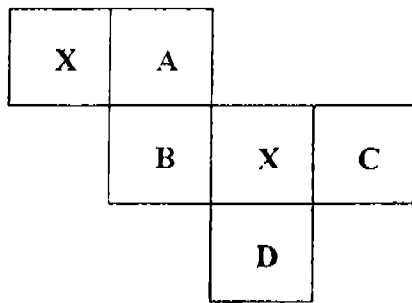
(1)   A and C   (3)   C and D
(2)   A and D   (4)   B and D

13. How many lines of symmetery can be found on the figure below?
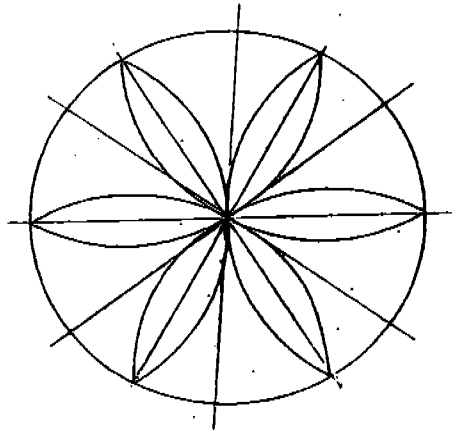
(1) 6
(2) 5

(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 | | | | | | | | | | | SUBJECT: |

INDEX NUMBER

④ ⑤ ⑥ ⑦ ⑧ ⑨

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

⓪ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ Ⓗ Ⓘ Ⓙ Ⓩ

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

① ● ③ ④

1 ① ② ③ ●   21 ① ② ③ ④   41 ① ② ③ ④
2 ① ② ● ④   22 ① ② ③ ④   42 ① ② ③ ④
3 ① ② ● ④   23 ① ② ③ ④   43 ① ② ③ ④
4 ① ● ③ ④   24 ① ② ③ ④   44 ① ② ③ ④
5 ① ● ③ ④   25 ① ② ③ ④   45 ① ② ③ ④

6 ① ② ● ④(4)   26 ① ② ③ ④   46 ① ② ③ ④
7 ① ② ● ④   27 ① ② ③ ④   47 ① ② ③ ④
8 ● ② ③ ④   28 ① ② ③ ④   48 ① ② ③ ④
9 ● ② ③ ④   29 ① ② ③ ④   49 ① ② ③ ④
10 ① ● ③ ④   30 ① ② ③ ④   50 ① ② ③ ④

11 ① ● ③ ④   31 ① ② ③ ④   51 ① ② ③ ④
12 ① ● ③ ④   32 ① ② ③ ④   52 ① ② ③ ④
13 ● ② ③ ④   33 ① ② ③ ④   53 ① ② ③ ④
14 ● ② ③ ④   34 ① ② ③ ④   54 ① ② ③ ④
15 ① ② ③ ●   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

SCORE : 21/25 (84%)

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.

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. There are 7 more tulips than roses.
       If the florist has 30 flowers altogether, how many roses are there?

Ans: _____

3
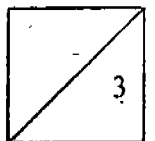
19. Arrange the following in ascending order.

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

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: _____ . _____

4

7
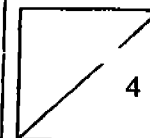
23.   Shoba spent $ 19.05 on pet food. She gave the cashier two five-dollar notes
       and one ten-dollar note. What was her change?

                                            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 muc trimmings would she need? (Take $\pi = \frac{22}{7}$)

                                            Ans: _____m

                                                                        /4
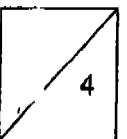
27. A gardener needed to cover a plot of land 20 m by 14 m with soil. Find the area covered by the soil.

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: _____

4

13
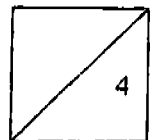
31. A dress is $\frac{1}{5}$ as heavy as a fur coat. If the fur coat weighs 3.3 kg, find the mass of the dress.

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.

water 20%

milk 45%

canned drinks $\frac{1}{5}$

fruit juice
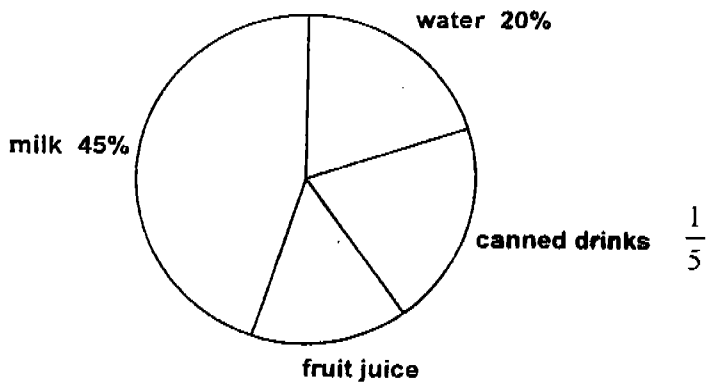
Ans: _____
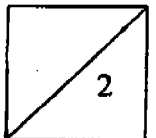
33. In the diagram below, find $\angle x$.

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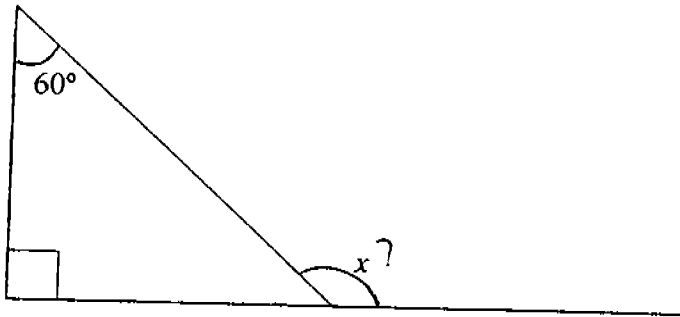
34. A wheel which has a circumference of 75 cm has a speed of 2 revolutions per second. Find the distance covered in 10 seconds.

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: $ _____ _____

3
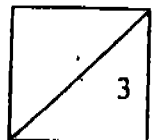
Name: _____ ( )

Class : Primary 6

Booklet B (55 marks)

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]
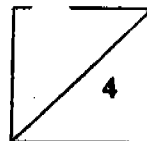
38.   Tessellate 4 times around the given unit shape.
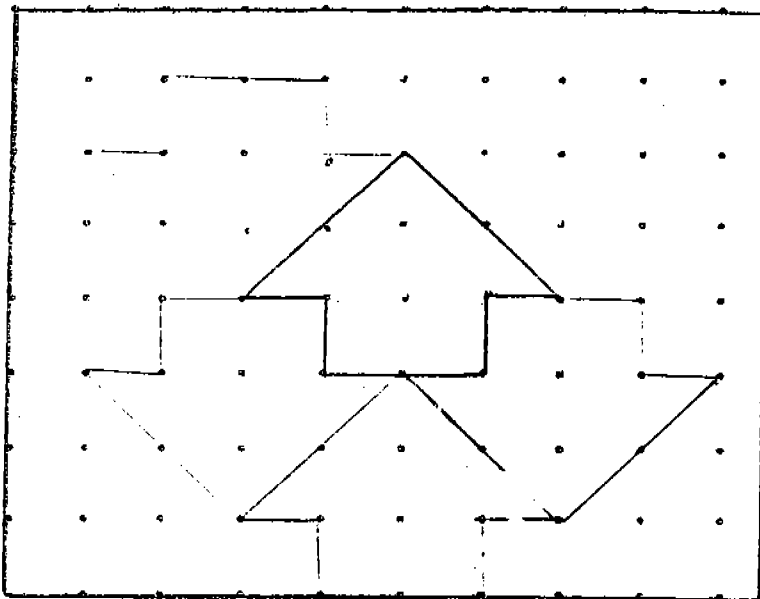
[2]

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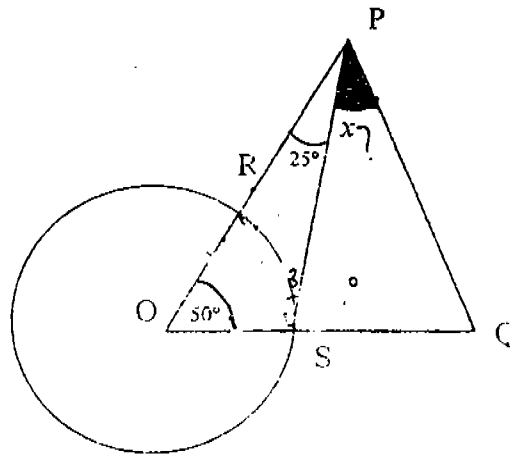

70 cm

85 cm

5
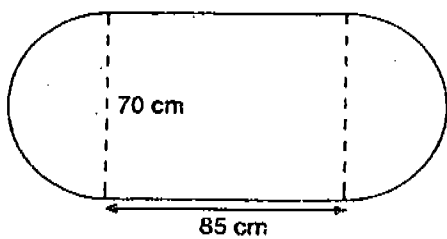
Ans:_____
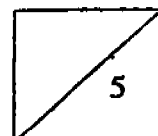
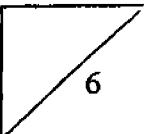40.   In the figure below, AB is parallel to DC and AD = BD. Find ∠BCD.
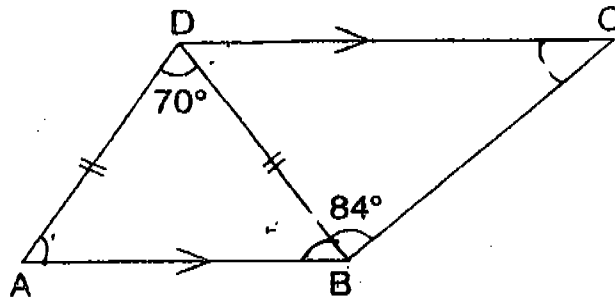
Ans _____[3]

41.   The figure below shows a circle and a triangle OPQ. PQ is parallel to RS.
        ∠ ROS = 50°. ∠OPS = 25°. Find ∠ x.
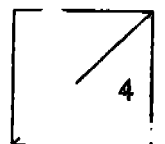

Ans _____ [3]

6

42.   The graph below shows the monthly expenditure of John.
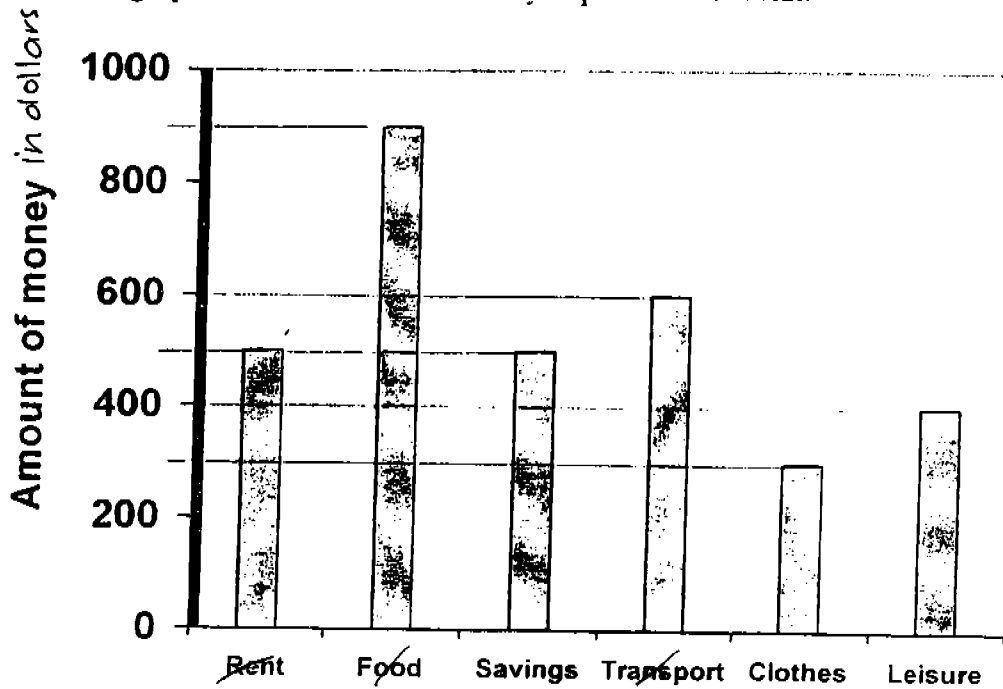
a)   John spent the least on _____ _____ _ .

b)   What percentage of John's income was spent on rent, transport and food?
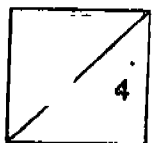

Ans: a) ___ _____ [1]

     b) ____ _____ [3]

4

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?

Ans:_____ _____[4]

4

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

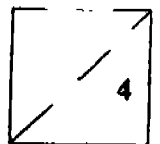| Quantity	Cost ($)
First 1000 cm³	0.03 per cm³
Next 1000 cm³	0.15 per cm³
Additional 1 cm³ above 2000 cm³	0.30 per cm³

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]

4

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,

(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]
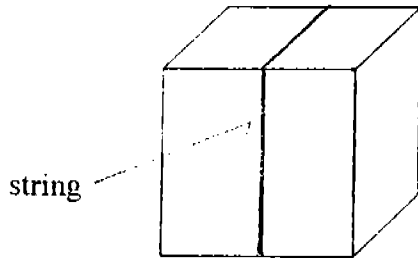
(b) __, _____ [1]

4

18

464 of 470.
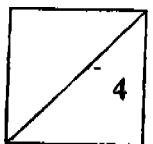
46. A string of length $10y$ cm is cut into 2 parts. One piece of the string is 8 cm shorter than the other piece.
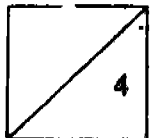
(a) Find the shorter piece.

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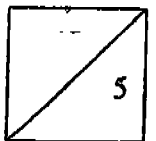

string

Ans: (a) _____ [2]

(b) _____ [2]

4

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?
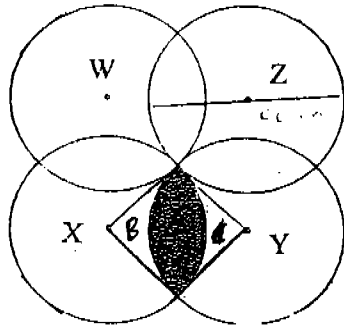
Ans: _____ [5]

5

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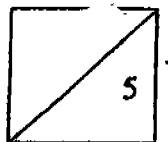The diameter of each pond is 40m.

(a)　　Find the radius of each pond.

(b)　　Find the area of the shaded part. (Take $\pi = 3.14$)

Ans : (a)_____[1]

(b)_____ _____[4]

5

49. *at a uniform speed*

Mrs Mala was travelling from Crystal Town to Jade Town.
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.

(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]2

(b) _____ [3]2
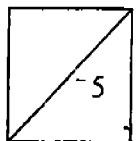
5
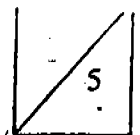
50. A chef baked 120 apple and some pear tarts.
The number of apple tarts is 60% that of the number of pear tarts.
After he had sold an equal number of each type of tart,
the ratio of the number of apple tarts to the number of pear tarts became 3 : 8.

(a) How many tarts did he sell?

(b) Find the percentage of unsold tarts.

Ans (a)_____ ____[3]

(b) _____ ____[2]

/5

—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 cm^2	
24	30%		
25	60 Cubes	49) (a) 450 km away	
26	1.1	(b) 7.48 a.m	
27	280 m^2		
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 cm^2		
40	41°		
41	40°		
42	Clothes		
43	(a) Clothes		
	(b) 62.5%		
43	296 whites sticks		
44	(a) $270		
	(b) $283.50		
45	(a) $256 more		
	(b) 1:3		