



PRIMARY 6 SEMESTRAL ASSESSMENT 2 2013

Name : _____ () Date: 24 July 2013

Class : Primary 6 ()

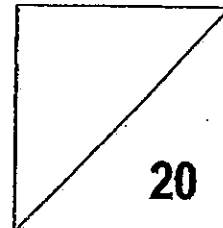
Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____

Marks: _____ / **100**

Paper 1 comprises 2 booklets, A and B.

**MATHEMATICS
PAPER 1
(BOOKLET A)**



INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

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). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.
(20 marks)

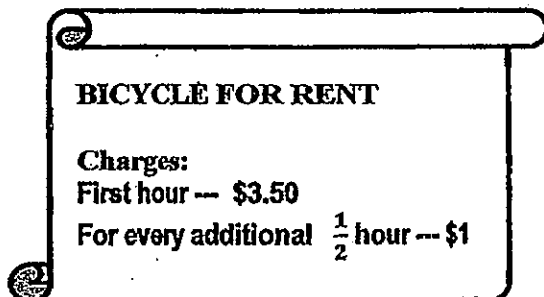
1. Which one of the following has the smallest value?

- (1) 0.506
- (2) 0.056
- (3) 0.605
- (4) 0.065

2. Write 3 hundreds, 7 tenths and 2 hundredths in numerals.

- (1) 300.09
- (2) 300.72
- (3) 370.02
- (4) 370.20

3. Ahmad rented a bicycle from 3.30 p.m. to 5.45 p.m. How much did he pay?



BICYCLE FOR RENT

Charges:
First hour --- \$3.50
For every additional $\frac{1}{2}$ hour --- \$1

- (1) \$5.00
- (2) \$5.50
- (3) \$6.00
- (4) \$6.50

4. Grapes are sold at \$0.65 per 100 g. What is the cost of 2 kg of grapes?

(1) \$130.00

(2) \$65.00

(3) \$13.00

(4) \$6.50

5. Five friends shared $\frac{5}{8}$ kg of gummies equally among themselves. How much gummies did each friend get?

(1) 125 g

(2) 280 g

(3) 625 g

(4) 1600 g

6. Dolly bought n muffins at 90¢. She gave the salesgirl a \$10 note. How much change did she receive?

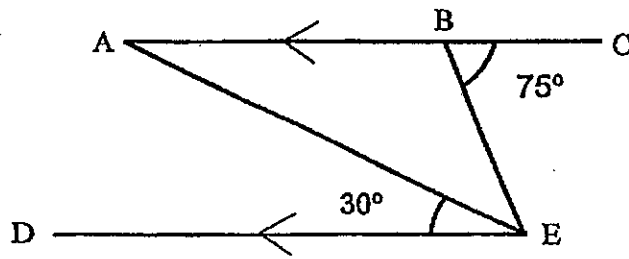
(1) $\$(0.9n - 10)$

(2) $\$(90n - 10)$

(3) $\$(10 - 0.9n)$

(4) $\$(10 - 90n)$

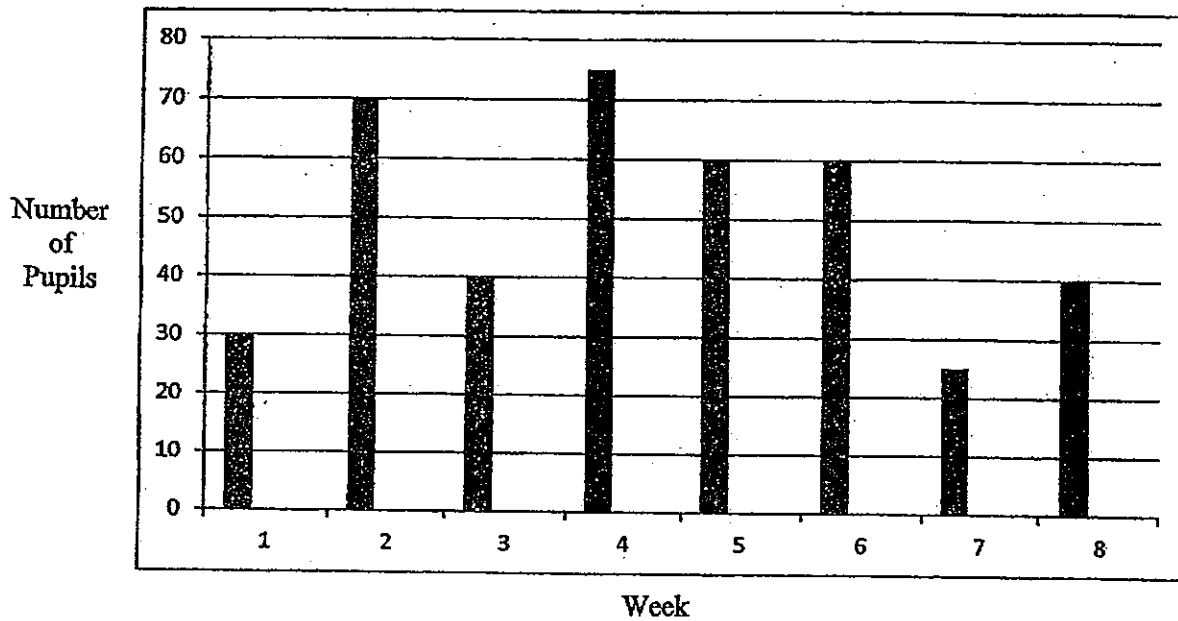
7. The figure below is not drawn to scale. AC and DE are straight lines. Find $\angle AEB$.



- (1) 45°
(2) 75°
(3) 105°
(4) 150°
8. Find $\frac{1}{2}\%$ of 700.

- (1) 3.5
(2) 35
(3) 350
(4) 35 000

9. The bar graph shows a total of 400 pupils involved in a Fund Raising Project over a period of 8 weeks. Study the graph carefully and answer the question:



In which week was there 3 times as many pupils involved in the Fund Raising Project as in the 7th week?

- (1) 2
(2) 5
(3) 8
(4) 4
10. Muthu took 130 seconds to run round a track. He was 25 seconds faster than Harry. How long did Harry take to run round the track?
- (1) 1 min 45 s
(2) 1 min 55 s
(3) 2 min 5 s
(4) 2 min 35 s

11. Miss Tan used $\frac{3}{8}$ m of gold ribbon for a present. She also used some silver ribbon which was $\frac{1}{5}$ m longer than the gold ribbon. How much ribbon did she use altogether for the present?

- (1) $\frac{2}{5}$ m
(2) $\frac{23}{40}$ m
(3) $\frac{3}{4}$ m
(4) $\frac{38}{40}$ m

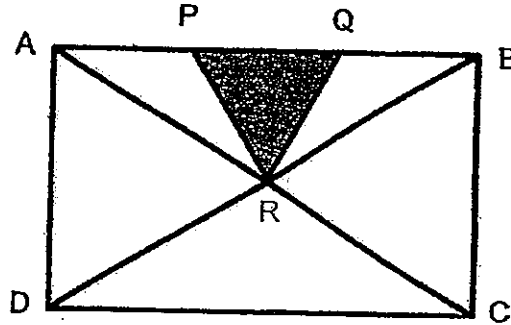
12. The table below shows the distances covered by Mark in 4 races. His average distance was 80m.

Races	Race 1	Race 2	Race 3	Race 4
Distances	?	85	?	65

If Mark ran 10m more in Race 3 than in Race 1, what was the distance he ran in Race 1?

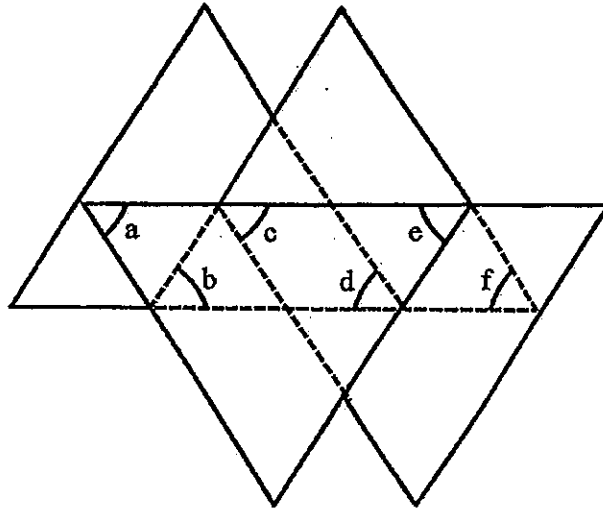
- (1) 80 m
(2) 90 m
(3) 160 m
(4) 170 cm

13. In the figure, not drawn to scale, PQ is $\frac{1}{3}$ of AB. What fraction of the figure is shaded?



- (1) $\frac{1}{6}$
- (2) $\frac{1}{8}$
- (3) $\frac{1}{10}$
- (4) $\frac{1}{12}$
14. A lift can travel from Level 1 to Level 11 in 25 seconds. If the distance between one level and the next level is 3 m, find the speed of the lift.
- (1) $\frac{5}{6}$ m/s
- (2) $1\frac{1}{5}$ m/s
- (3) $1\frac{8}{25}$ m/s
- (4) $8\frac{1}{3}$ m/s

15. The diagram below is made up of 4 equilateral triangles overlapping one another. Find the sum of $\angle a + \angle b + \angle c + \angle d + \angle e + \angle f$.



- (1) 180°
- (2) 360°
- (3) 540°
- (4) 720°

End of Booklet A



PRIMARY 6 SEMESTRAL ASSESSMENT 2 2013

Name : _____ ()

Date: 24 July 2013

Class : Primary 6 ()

Time: 8.00 a.m. - 8.50 a.m.

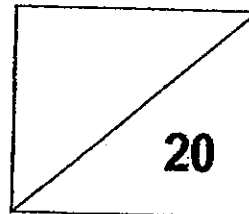
Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET B)



INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **not** allowed to use a calculator.

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

(10 marks)

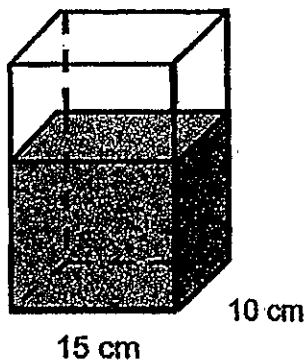
16. Andy has 10% more savings than Benny. Benny has 10% more savings than Eddy. Andy has _____% more savings than Eddy?

Ans: _____%

17. $1.125 = 1 + 0.1 + \frac{\boxed{?}}{50} + \frac{5}{1000}$

Ans: _____

18. 2.4 litres of water filled up $\frac{2}{3}$ of a rectangular tank. Find the height of the tank.
(1 litre = 1000 cm³)

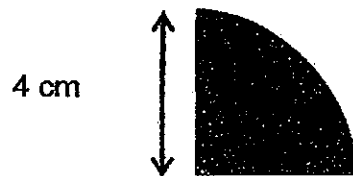


Ans: _____ cm

19. Find the value of $\frac{7}{9} + \frac{1}{3}$. Leave your answer in its simplest form.

Ans: _____

20. Find the perimeter of the quadrant in terms of π .



Ans: _____ cm

21. Valerie cycled from her house to the park at an average speed of 75 m/min for 12 minutes. What was the distance between her house and the park?

Ans: _____ m

22. Express $3\frac{1}{2}\%$ as a fraction in its simplest form.

Ans: _____

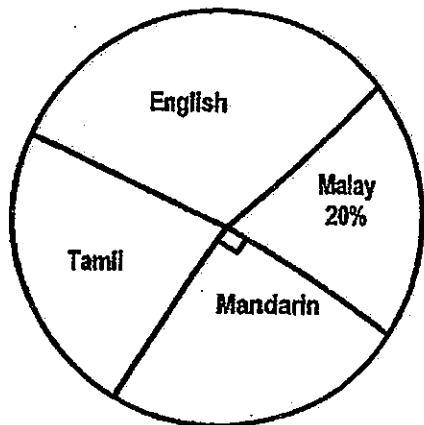
23. A pack of five sweets cost 45¢. What is the maximum number of sweets I can buy with \$26?

Ans: _____

24. Find the value of $(100 - 48) \times 6 + 2 - (14 + 26)$.

Ans: _____

25. Mrs Tan conducted a survey with 3 classes to find out the language that the pupils speak at home. The enrolment per class is 40. The number of pupils who speak English is 1.5 times the number of pupils who speak Malay. How many pupils speak Tamil at home?



Ans: _____

Questions 26 to 30 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)

26. 50% of Shop A's books is equal to $\frac{2}{5}$ of Shop B's books. If Shop B has 100 books more than Shop A, how many books are there in the two shops?

Ans: _____

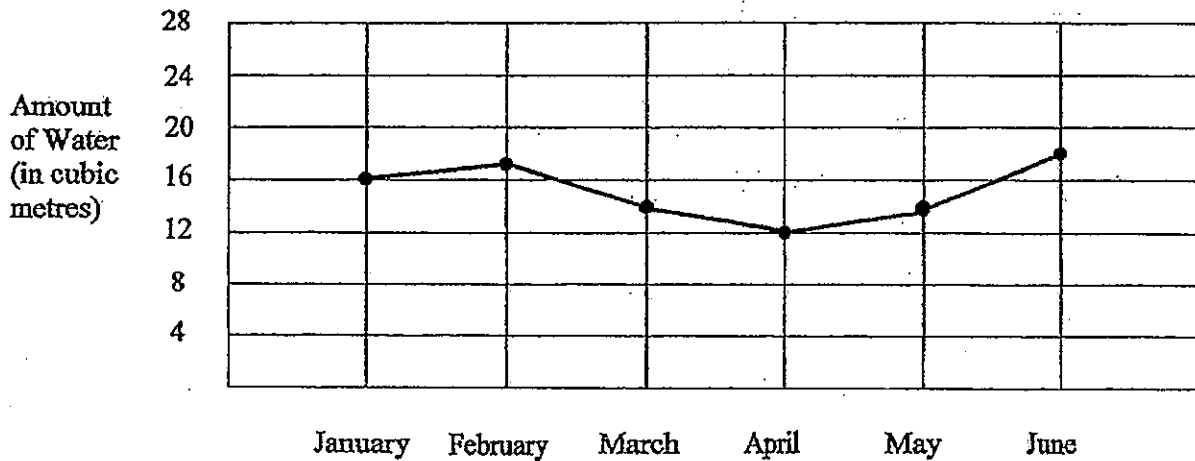
27. The ratio of Mr Ho's age to his son's age is 6 : 1 now. Mr Ho is 30 years older than his son. How old will his son be in 2 years' time?

Ans: _____

28. The average mass of Ali and Raju is p kg. Ali is 2 kg lighter than Raju.
Find the mass of Ali in terms of p .

Ans: _____

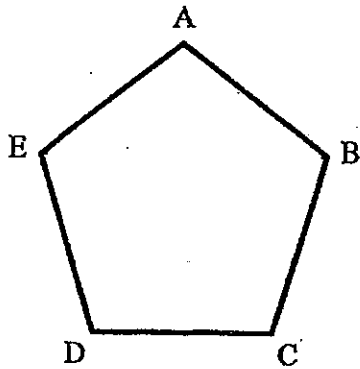
29. The line graph shows the amount of water used by the Poh family for the first 6 months of this year.



The amount of water used is charged at \$1.00 per cubic metres. How much did the Poh family pay for the water used for the months of May and June if they also had to pay 7% GST?

Ans: _____

30. Figure ABCDE is a pentagon. All the sides and angles of a pentagon are equal. All the angles in the figure are also equal. What is the value of $\angle ABC$?



Ans: _____

- End of Booklet B -



PRIMARY 6 SEMESTRAL ASSESSMENT 2 2013

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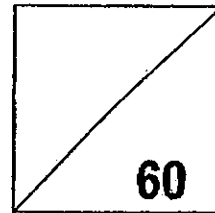
Class : Primary 6 ()

Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2



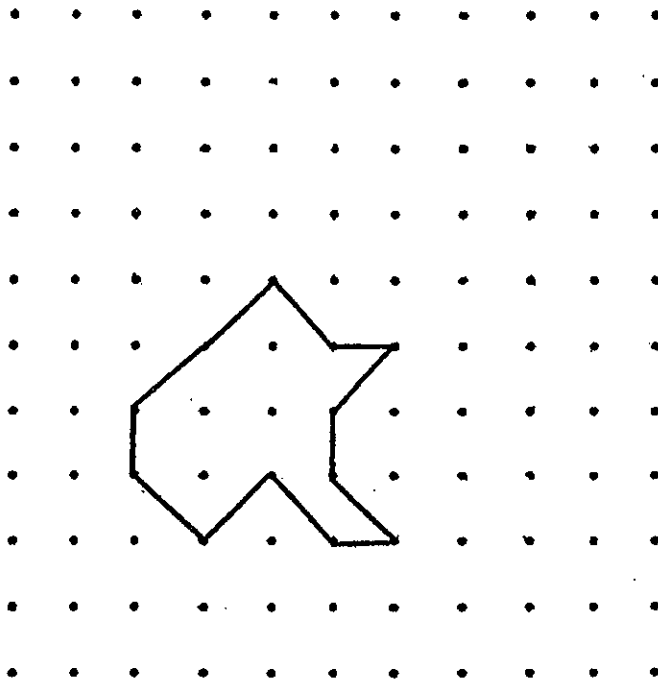
INSTRUCTIONS TO CANDIDATE

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3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

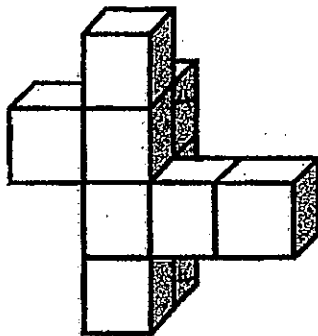
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1. Use the given shape to form a tessellation in the space provided.
Draw 3 more of the given shape.

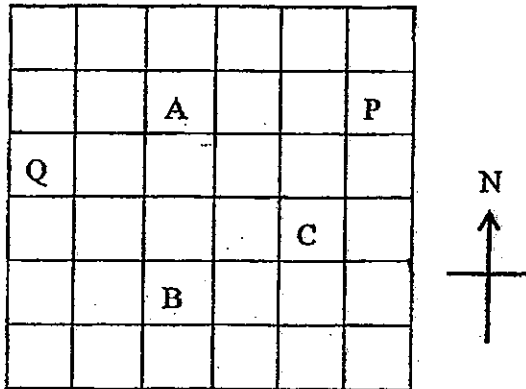


2. Pieces of cubes are glued together to form the solid shown below.
The whole solid is then painted. What is the ratio of the total number of cubes with 3 faces painted to the total number of cubes with 4 faces painted?



Ans: _____

3. Study the grid below and answer the questions using the 8-point compass.



(a) B is _____ of P. (1m)

(b) Z is northwest of C and southeast of A. Mark Z in the given grid. (1m)

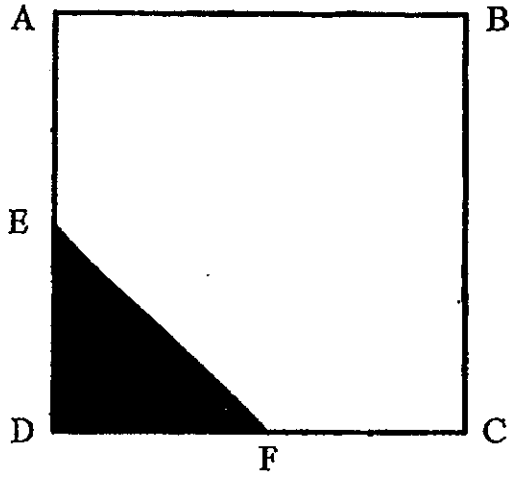
Ans: (a) _____

(b) refer to grid

4. Heidi had some 50-cent and 20-cent coins. There were twice as many 20-cent coins as 50-cent coins. The total value of the coins was \$8.10. How many 20-cent coins were there?

Ans: _____

5. ABCD is a square. $DF = FC = DE = AE$. Triangle DEF has an area of 8 cm^2 . Find the area of ABCFE.



Ans: _____

For questions 6 to 18, 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.

(50 marks)

6. The mass of a box with 80 identical toys is 14.8 kg. When 35 toys are removed, the mass of the box with the remaining toys is 8.5 kg.

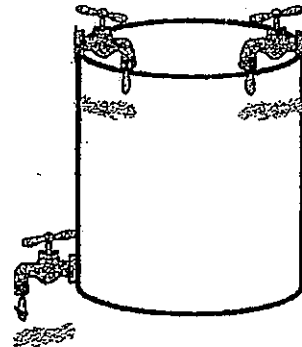
(a) What is the mass of each toy?

(b) What is the mass of the box?

Ans: (a) _____ [2]

(b) _____ [1]

7. Tap A fills a container in 3 hours. Tap B fills the same container in 2 hours. Tap C empties the same container in 6 hours. When all the taps are turned on at the same time, how long does it take to fill the container?



Ans: _____ [3]

8. Janet had \$100 more than Cathy. If Cathy gave Janet \$40, Janet would have 4 times as much money as Cathy. How much money did Janet have at first?

Ans: _____ [3]

9. There were 160 novels and comics on a shelf. When $\frac{2}{5}$ of the novels and $\frac{2}{3}$ of the comics were removed, the total number of novels and comics became 72. How many novels were there on the shelf at first?

Ans: _____ [3]

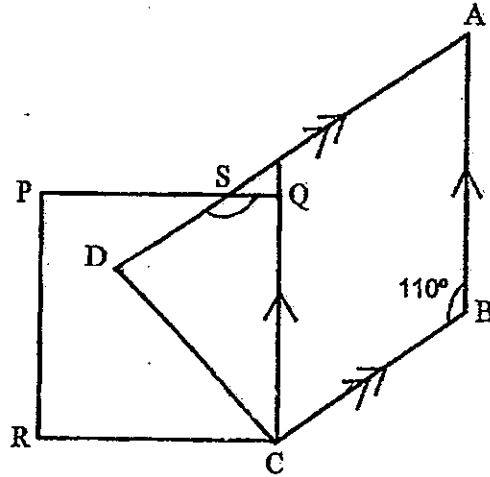
10. There were 250 bean bags in a basket. The ratio of the number of red bean bags to the number of blue bean bags to the number of yellow bean bags was 5 : 2 : 3. Another 99 bean bags were put into the basket. As a result, the number of red bean bags increased by 40% and the number of blue bean bags increased by 50%. What was the percentage increase in the number of yellow bean bags?

Ans: _____ [3]

11. Aunt Eggy had some eggs for sale. She sold $\frac{1}{5}$ of the eggs in the morning and some eggs in the afternoon. The ratio of the number of eggs sold in the afternoon to the number of eggs left became 1 : 7. She then bought another 120 eggs. As a result, she had as many eggs as she had at first. How many eggs did she have at first?

Ans: _____ [3]

12. In the figure below, ABCD is a trapezium and PQCR is a square. The size of $\angle DCR$ is $\frac{5}{4}$ of $\angle DCQ$. Find $\angle DSQ$?



Ans: _____ [4]

13. If Andy gives May \$12, he will have the same amount of money as May.
If May gives Andy \$12, the amount of May's money is $\frac{1}{2}$ the amount of Andy's money. How much money has May at first?

Ans: _____ [4]

14. A car and a van started at the same time from Town P and travelled towards Town Q at constant speeds. The speed of the car was 40 km/h faster than the speed of the van. After 6 hours, the car reached Town Q while the van had only completed $\frac{3}{5}$ of the journey. Find the speed of the car.

Ans: _____ [4]

15. Anna baked some chicken and beef pies for her friends. 45% of the chicken pies and 10% of the beef pies were eaten. Altogether, $\frac{1}{3}$ of the pies were eaten. In the end, she was left with 10 more chicken pies than beef pies. How many chicken pies did she bake?

Ans: _____ [5]

16. Velvet Store sold a bag for \$936. This was 17% more than the price of a similar bag sold in Pastel Store. During a sale, both stores offered the same percentage discount on the bags. Mandy bought the bag from Pastel Store. She paid \$102 less than the discounted price in Velvet Store.
- (a) What is the price of the bag before discount in Pastel Store?
- (b) What is the percentage discount given during the sale?

Ans: (a) _____ [2]

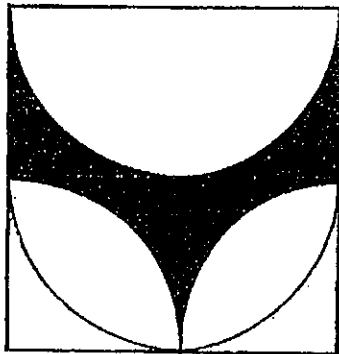
(b) _____ [3]

17. The figure below is made up of four 7-cm squares and some identical quadrants.

(a) Find the perimeter of the shaded figure.

(b) Find the shaded area.

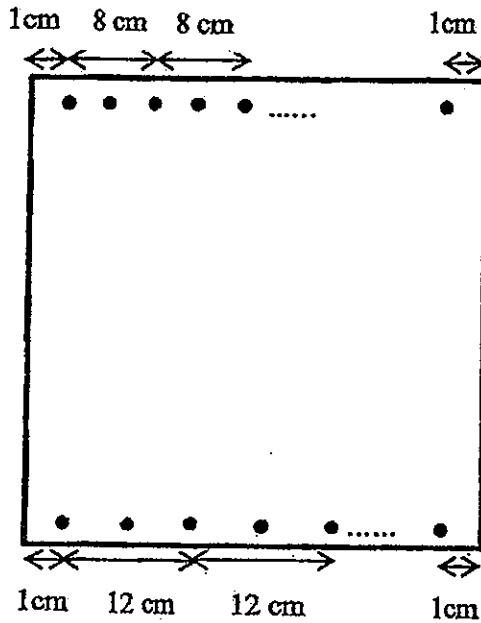
Leave your answers in 2 decimal places. (Take $\pi = 3.14$)



Ans: (a) _____ [2]

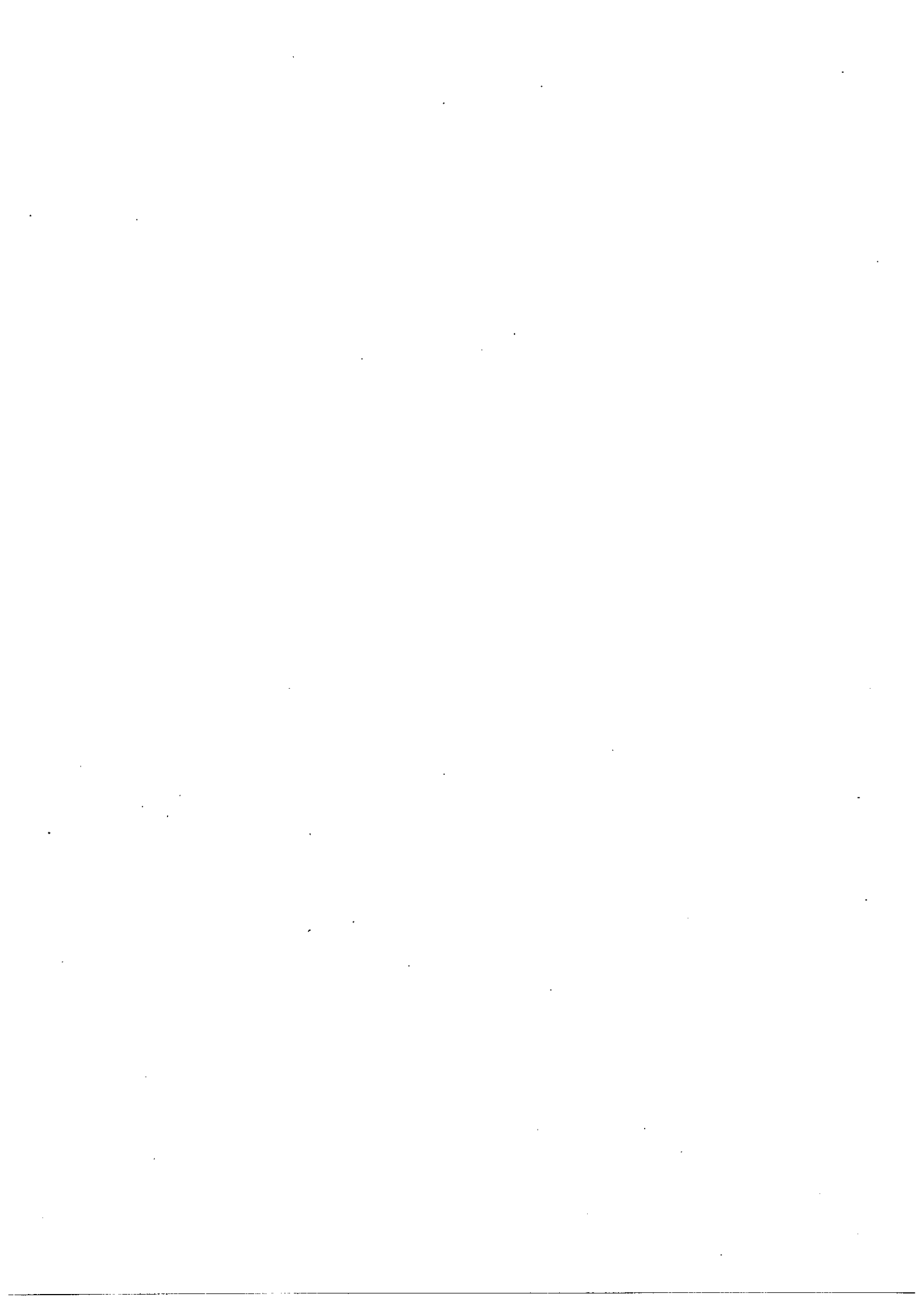
(b) _____ [3]

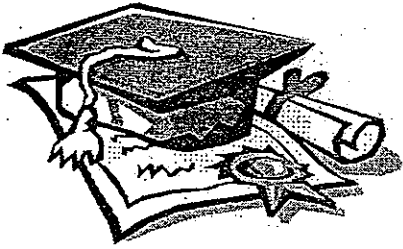
18. Refer to the diagram. Minnie marked some dots on 2 opposite sides of a square paper. There are 3 black dots at equal intervals on one side and 3 red dots at equal intervals on the opposite side as shown in the diagram. There are 32 more black dots than red dots. What is the length of the square paper?



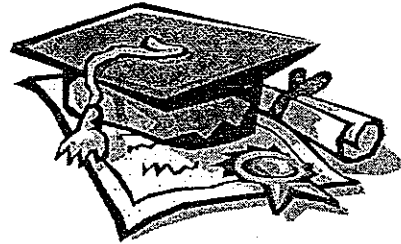
Ans: _____ [5]

End Of Paper





ANSWER SHEET



EXAM PAPER 2013

SCHOOL : TAO NAN PRIMARY SCHOOL

LEVEL : PRIMARY 6

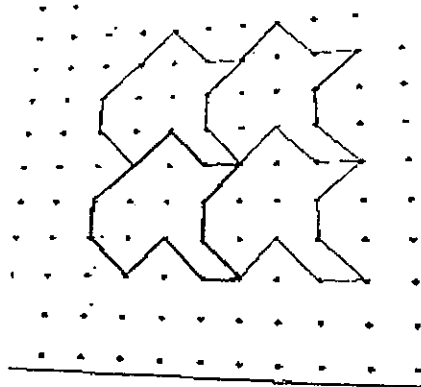
SUBJECT : MATHS

TERM : SA2

Booklet A

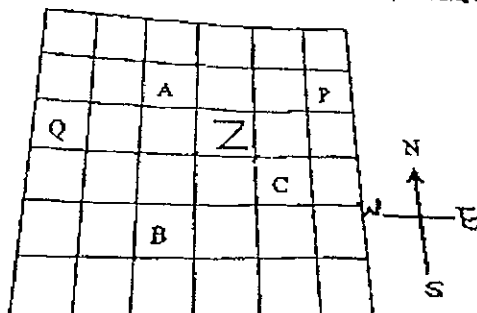
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
2	2	4	3	1	3	1	1	4	4	4	1	4	2	2	

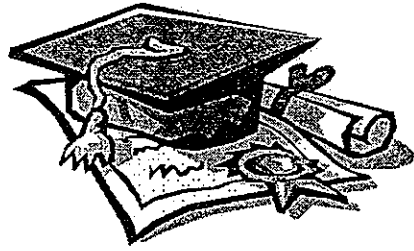
- 16) 21%
- 17) 1
- 18) 24cm
- 19) $2\frac{1}{5}$
- 20) $2n+8$
- 21) 900
- 22) $\frac{7}{200}$
- 23) 285
- 24) 116
- 25) 30
- 26) 900
- 27) 8 years old
- 28) $(p-1)$ kg
- 29) \$ 34.24
- 30) 108°



Paper 2

- 1).
- 2) 1: 4
- 3) a) South-West
- 4) $0.2 \times 2 = 0.4$.
- $0.4 + 0.5 = 0.9$
- $8.10 \div 0.9 = 9$
- $9 \times 2 = 18$





$$5) 8 \times 2 = 16$$

$$16 = 4 \times 4$$

$$4 \times 2 = 8$$

$$8 \times 8 = 64$$

$$64 - 8 = 56$$

$$6) a) 14.8 - 8.5 = 6.3$$

$$35 \text{ toys} \text{ --- } 6.3 \text{ kg}$$

$$1 \text{ toy} \text{ ---- } 0.18 \text{ kg}$$

$$b) 80 \text{ toys} \text{ --- } 14.4 \text{ kg}$$

$$14.8 \text{ kg} - 14.4 \text{ kg} = 0.4 \text{ kg}$$

7)

$$\frac{1}{3} \div \frac{1}{2} = \frac{5}{6}$$

$$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$$

$$60 \div 4 \times 6 = 90 \text{ mins}$$

$$8) 40 \times 2 = 80$$

$$80 + 100 = 180$$

$$4 - 1 = 3$$

$$180 \div 3 = 60$$

$$60 \times 4 = 240$$

$$240 - 40 = 200$$

$$9) 160 - 72 = 88$$

$$2N + 2C = 88$$

$$1N + 1C = 44$$

$$3N + 3C = 132$$

$$160 - 132 = 28$$

$$28 \div 2 = 14$$

$$14 \times 5 = 70$$

$$10) 250 \div 10 = 25$$

$$25 \times 5 = 125$$

$$25 \times 2 = 50$$

$$50 + 25 = 75$$

$$99 - 75 = 24$$

$$3 \times 25 = 75$$

$$\frac{24}{75} \times 100\% = 32\%$$

11)

Afternoon : Left

1 : 7

$$\frac{1}{5} = \frac{2}{10}$$

$$\frac{4}{5} = \frac{8}{10}$$

$$\frac{2}{10} \div \frac{1}{10} = \frac{3}{10}$$

$$120 \div 3 = 40$$

$$40 \times 10 = 400$$

$$12) 180 - 110 = 70$$

$$5 + 4 = 9$$

$$90 \div 9 = 10$$

$$10 \times 5 = 50$$

$$90 - 50 = 40$$

$$180 - 70 - 40 = 70$$

$$180 \times 2 = 360$$

$$\text{Angle DSQ} = 360 - 70 - 90 - 40 = 160$$

$$13) 12 \times 2 = 24$$

$$A - M = 24$$

$$24 + 24 = 48$$

$$48 + 12 = 60$$

$$14) 40 \times 6 = 240$$

$$5 - 3 = 2$$

$$240 \div 2 = 120$$

$$120 \times 5 = 600$$

$$120 \times 3 = 360$$

$$360 \div 6 = 60$$

$$60 + 40 = 100$$

15)

$$45\%C + 10\%B = \frac{1}{3}P$$

$$135\%C + 30\%B = 1P$$

$$35\%C = 70\%B$$

$$1\%C = 2\%B$$

$$55\%C - 90\%B = 10P$$

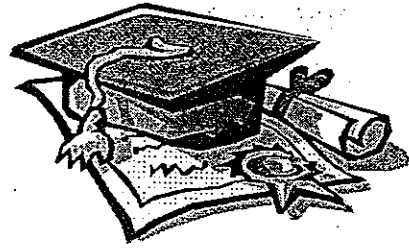
$$55\%C = 110\%B$$

$$20\%B = 10P$$

$$2\%B = 1P$$

$$100\%C = 100P$$

$$16) a) 936 \div 117 = 8$$



$$8 \times 100 = 800$$

$$b) 936 - 800 = 136$$

$$136 - 102 = 34$$

$$V - P = \$34$$

$$12\% \text{ of } 117 = 12\% \text{ of } 100 + 34$$

$$12\% \text{ of } 936 = 12\% \text{ of } 800 + 34$$

$$25\% \text{ of } 936 = 25\% \text{ of } 800 + 34$$

$$17) a) 7 \times 2 = 14$$

$$14 \times 3.14 = 43.96$$

$$43.96 + 7 + 7 = 57.96 \text{ cm}$$

$$b) 7 \times 7 \times 3.14 \div 4 = 38.465$$

$$7 \times 7 = 49$$

$$49 - 38.465 = 10.535$$

$$10.535 \times 2 = 21.07$$

$$21.07 \times 2 = 42.14 \text{ cm}^2$$

18) Common multiple of 8 and 12 is 24

$$\text{Difference } 7 - 5 = 2$$

$$32 \div 2 = 16$$

$$32 \times 12 = 384$$

$$384 + 2 = 386$$