



PRIMARY 5 END-OF-YEAR EXAMINATION 2013

Name : _____ () Date: 24 October 2013

Class : Primary 5 ()

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

Parent's Signature : _____

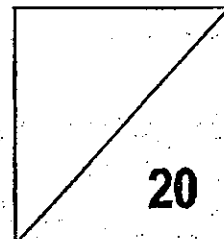
Marks: _____ / **100**

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 number below has the smallest value for the digit 2?

- (1) 9 362 541
- (2) 7 026 543
- (3) 2 541 380
- (4) 1 267 030

2. Find the value of $28 + 21 \div 7 + (20 - 17) \times 3$.

- (1) 16
- (2) 30
- (3) 40
- (4) 46

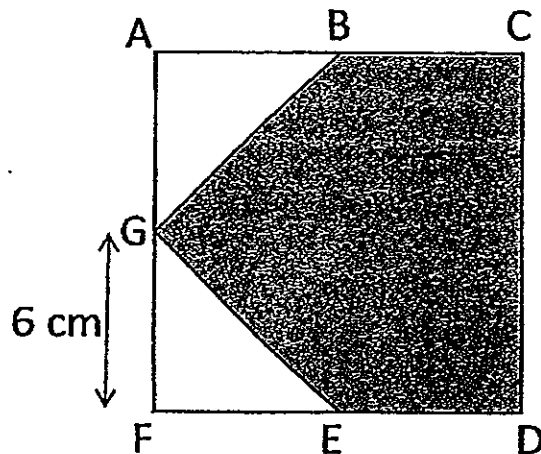
3. What is the value of 8 ones, 3 tenths and 7 thousandths?

- (1) 8.037
- (2) 8.307
- (3) 8.730
- (4) 8.703

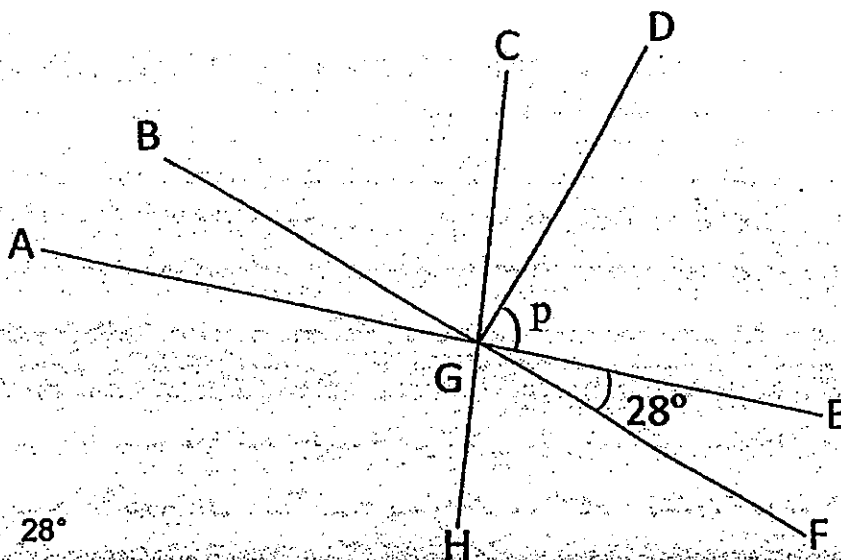
4. Find the value of $95.37 \div 11$.

- (1) 8.67
- (2) 86.7
- (3) 84.37
- (4) 106.37

5. $ACDF$ is a square. B , E and G are midpoints of AC , DF and AF . Find the area of the shaded part.



- (1) 36 cm^2
 (2) 108 cm^2
 (3) 126 cm^2
 (4) 144 cm^2
6. In the figure below, not drawn to scale, DG is perpendicular to BF . AGE is a straight line. Find $\angle p$.



- (1) 28°
 (2) 62°
 (3) 124°
 (4) 152°

7. The average cost of a shirt and a tie is \$27. The tie costs half as much as a shirt. What is the cost of a tie?

- (1) \$9
- (2) \$18
- (3) \$36
- (4) \$54

8. Express $\frac{7}{8}$ as a percentage.

- (1) 12.5%
- (2) 15 %
- (3) 56%
- (4) 87.5%

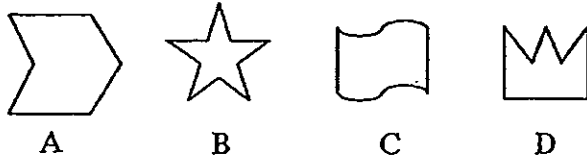
9. The price of a dress was reduced to 25% of the original price during the Great Singapore Sale. The original price was \$360. Find the price of the dress after the discount.

- (1) \$90
- (2) \$270
- (3) \$335
- (4) \$480

10. How many sevenths are there in $3\frac{4}{7}$?

- (1) 12
- (2) 21
- (3) 25
- (4) 28

11. Which of the following shapes can be tessellated?



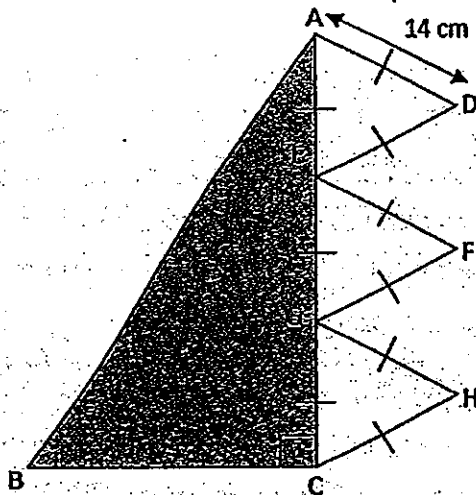
- (1) A & C only
- (2) A & B only
- (3) B & C only
- (4) B & D only

12. The ratio of the number of blue pens to the number of red pens in a box is 4 : 5.

There are 12 blue pens in the box. If each pen costs \$1.20, find the total cost of all the red pens.

- (1) \$3.60
- (2) \$14.40
- (3) \$18.00
- (4) \$32.40

13. BC is twice the length of AD. Find the area of the shaded triangle.



- (1) 196 cm^2
- (2) 294 cm^2
- (3) 588 cm^2
- (4) 1176 cm^2

14. The masses of Ravi, Tom and Shah are in the ratio of 4 : 5 : 9. Shah's mass is 54 kg. What is the total mass of the three boys?

- (1) 24 kg
- (2) 30 kg
- (3) 108 kg
- (4) 162 kg

15. $\frac{3}{4}$ of Salleh's salary is equal to $\frac{1}{2}$ of Brian's salary. What fraction of Salleh's salary is Brian's salary?

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



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Name : _____ () Date: 24 October 2013

Class : Primary 5 () Time: 8.00 a.m. - 8.50 a.m.

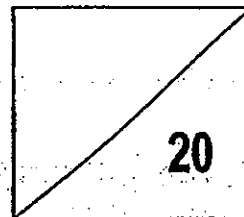
Parent's Signature : _____

Paper 1 comprises Booklet A and Booklet 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. Write the following in numerals.

Nine million, three hundred and sixty-four thousand, six hundred and forty-five.

Ans: _____

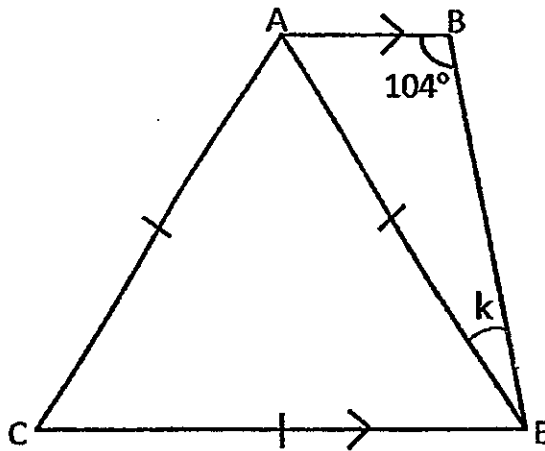
17. Find the product of 2.785 and 400.

Ans: _____

18. Find the value of $5\frac{1}{3} - 4\frac{6}{7}$.

Ans: _____

19. Triangle ACE is an equilateral triangle. Find $\angle k$.



Ans: _____ $^\circ$

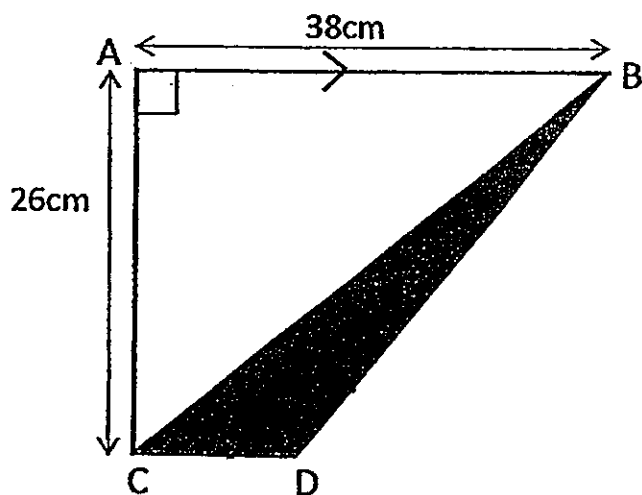
20. An aquarium tank measures 15 cm by 7 cm by 8 cm. What is the volume of water needed to fill $\frac{1}{3}$ of the tank?

Ans: _____ ml

21. The average mass of water in Jug A, Jug B and Jug C is 47 kg. The average mass of Jug A and Jug C is 64 kg. What is the mass of Jug B?

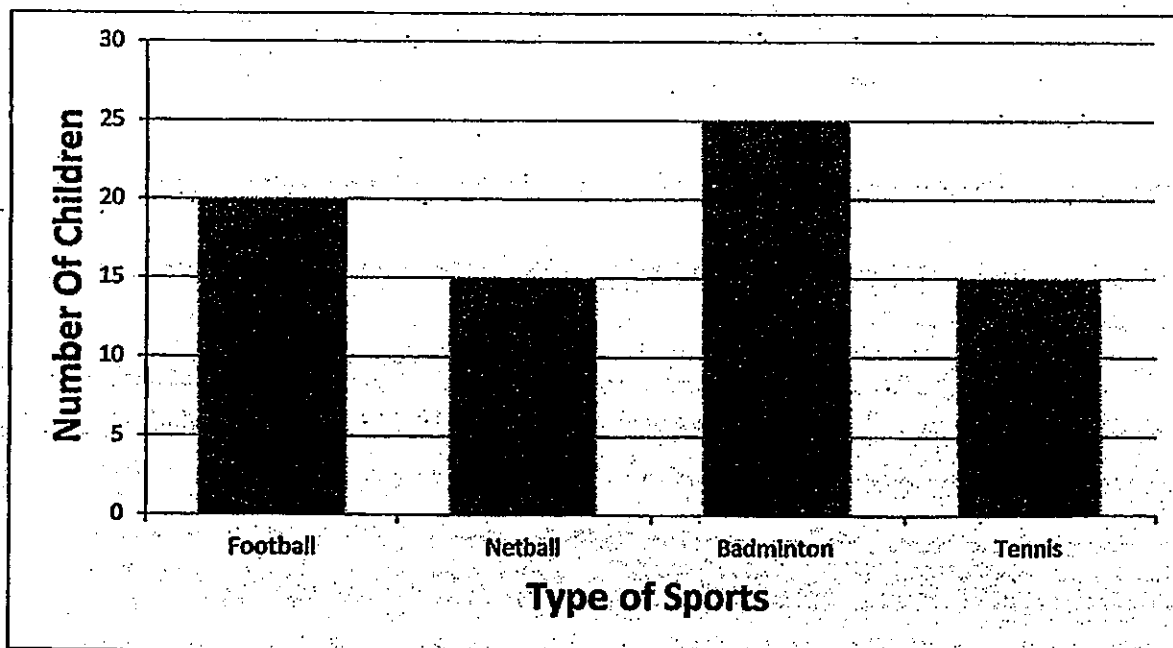
Ans: _____ kg

22. The figure below is not drawn to scale. CD is half of AC. Find the area of the shaded triangle.



Ans: _____ cm^2

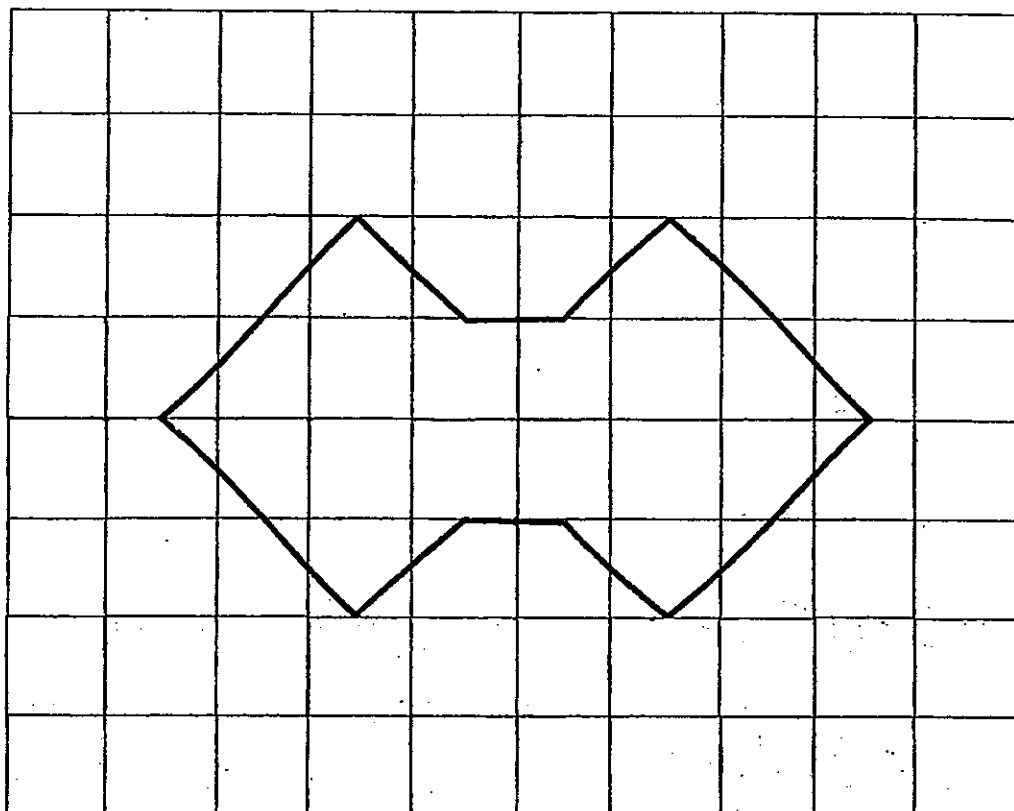
The graph below shows the type of sports that children play.



23. What percentage of the children play Tennis?

Ans: _____ %

24. Draw all lines of symmetry for the given shape below.



25. Find the missing number from the pattern below:

$$\frac{3}{4}, \frac{3}{8}, \frac{3}{16}, \quad , \frac{3}{64}, \frac{3}{128}, \frac{3}{256}$$

Ans: _____

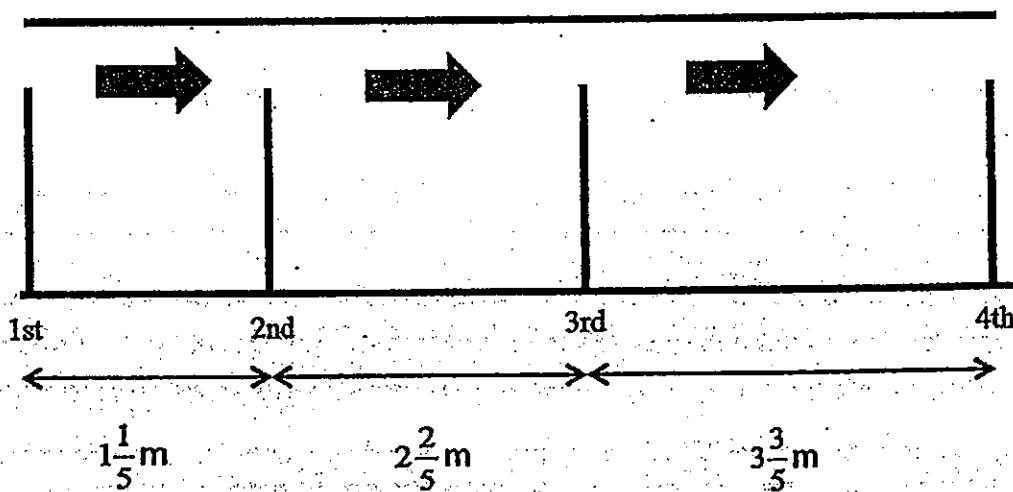
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

26. Mary had some biscuits. If she gave each friend 1 biscuit, she would have 8 biscuits extra. If she gave each friend 5 biscuits, she would need 48 more biscuits. How many friends were there?

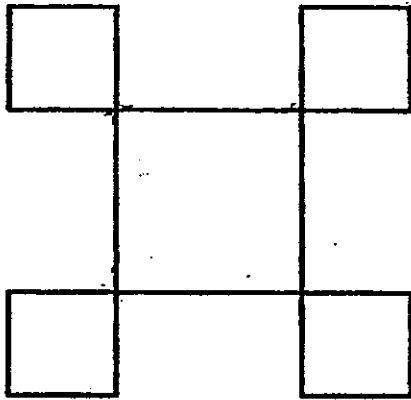
Ans: _____

27. Several poles were installed along the roadside.
What is the distance between the 20th and 21st poles?



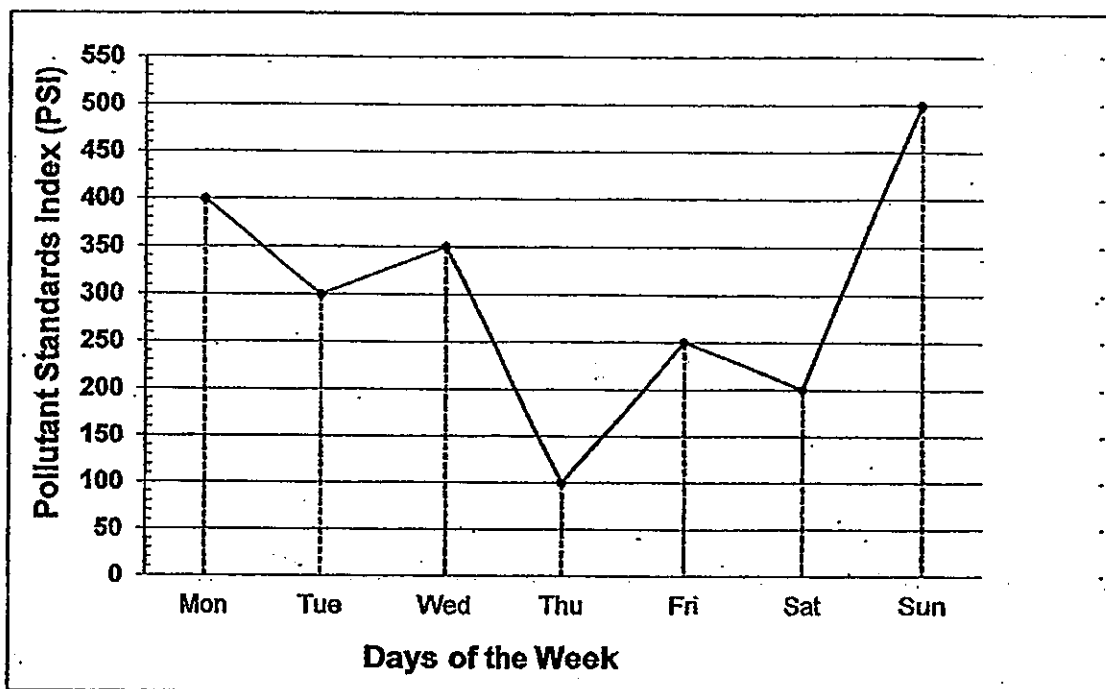
Ans: _____ m

28. A big square is joined to 4 identical small squares as shown in the figure below. Each small square has an area of 36 m^2 . The ratio of the area of one small square to the big square is $1 : 4$. Find the perimeter of the big square.



Ans: _____ m

The line graph below shows the Pollutant Standards Index (PSI) at 12 p.m. for each day within one week. Study the graph carefully and answer questions 29 and 30.



29. The greatest decrease in the PSI readings for the week is between _____ and _____.

Ans: _____ and _____

30. What is the average PSI reading for the week?

Ans: _____

End of Paper 1



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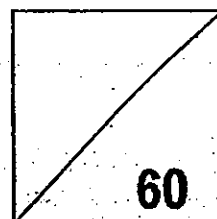
Class : Primary 5 ()

Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2



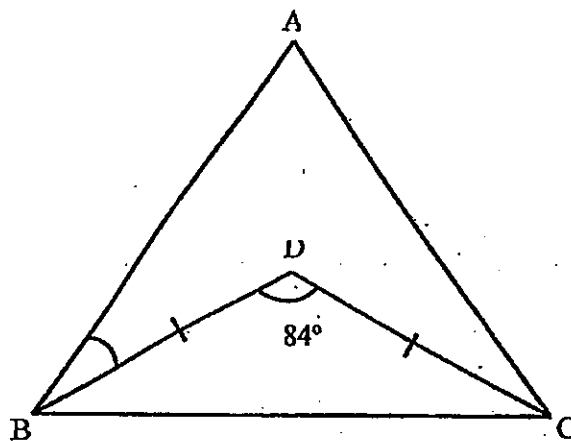
INSTRUCTIONS TO CANDIDATE

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. 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.

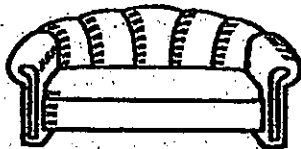
(10 marks)

1. The figure below is not drawn to scale. ABC is an equilateral triangle. BCD is an isosceles triangle. Find $\angle ABD$.



Ans: _____°

2. Ken bought a couch for his new house. Before the 7% GST, the couch cost \$755. How much did Ken pay for the couch after including the GST?



Ans: \$ _____

3. $\frac{1}{7}$ of Kassim's savings is equal to $\frac{1}{5}$ of Clark's savings. Kassim has \$104 more than Clark. What is their total savings?

Ans: \$ _____

4. 144 chairs were placed in the school hall to form a complete square. All the chairs should be equal distance apart. How many chairs were there on each side of the square?

Ans: _____

5. Steven and Carrie had some sweets in the ratio 3 : 2. When Steven gave $\frac{1}{2}$ of his sweets to Carrie, she then had 36 sweets more than him. How many sweets did Steven have at first?

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. Raju has \$325 and Siti has \$64. How much money must Raju give to Siti so that Raju has 3 times as much as Siti?

Ans: _____ [3]

7. A jug, which was completely filled with water, has a mass of 5.21kg. Its mass is 4.1kg when $\frac{3}{5}$ of the water was poured into some glasses. What is the mass of the ^{jug} container when it is not filled with water?

Ans: _____ [3]

8. During a carnival, $\frac{2}{5}$ of the people who attended were men. 32 more women than men attended the carnival. The remaining 58 people were children. How many more men than children were at the carnival?

Ans: _____ [3]

9. The ratio of the number of crabs to the number of prawns in a market was 7 : 11. There were 168 crabs at first. After some prawns were sold, the ratio of the number of crabs to the number of prawns became 8 : 9. How many prawns were sold?

Ans: _____ [3]

10. Marcus drew 3 paintings in 2 hours and spent 4 hours to draw another 6 paintings.

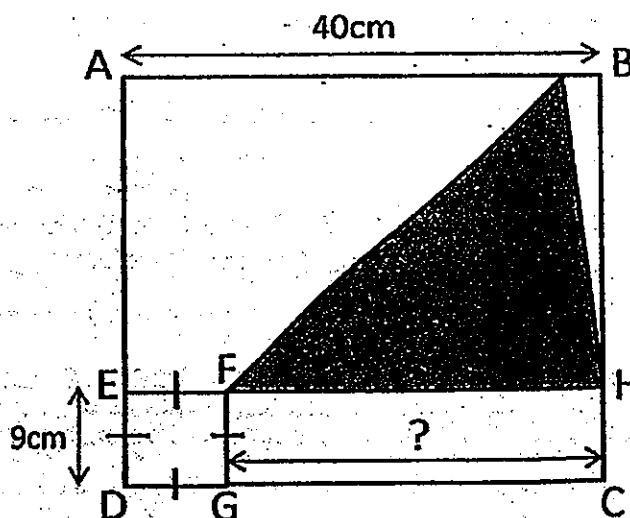
- (a) Find the average number of paintings he drew per hour.
(b) Find the average time he spent on drawing a painting. Express your answer in minutes.

Ans: a) _____ [1]

b) _____ [2]

11. In the figure below, not drawn to scale, ABCD is a rectangle. EFH is a straight line. ED is $\frac{1}{4}$ of AD.

- (a) Find the length of GC.
(b) Find the shaded area.



Ans: a) _____ [1]

b) _____ [2]

12. The ratio of the number of boxes to the number of marbles in a shop is 1 : 15.

The number of blue marbles is $\frac{4}{7}$ of the number of red marbles. There are

225 more red marbles than blue marbles. How many boxes are there?

Ans: _____ [4]

13. A rectangular container measuring 68 cm by 54 cm by 30 cm is completely filled with water. A tank measuring 48 cm by 50 cm by 35 cm is $\frac{1}{5}$ - filled with water.

If the water from the container is transferred to the tank until it fills up to its full capacity, how much water is left in the container? Give your answer in litres and millilitres.

Ans: _____ [4]

16. Mrs Lim spent 0.25 of her monthly salary on her car and $\frac{2}{3}$ of the remainder on petrol every month. $\frac{1}{4}$ of what is left is saved and the rest spent on groceries. She spent \$562 more on petrol than on groceries. If she earned and spent the same amount every month, how much would she spend on petrol in a year?

Ans: _____ [5]

17. 4500 tickets were available in a concert. 10% of the tickets were from Category A. $\frac{1}{5}$ of the remaining tickets were from Category B. The rest of them were from Category C. Due to the overwhelming response from the public, the organiser had decided to convert 200 more tickets from Category C to Category A.
- (a) How many tickets were from Category A in the end?
- (b) What percentage of the tickets was from Category C in the end?
(Round off your answer to the nearest whole number.)

Ans: a) _____ [2]

b) _____ [3]

18. Fatin spent $\frac{5}{7}$ of her money on 4 magazines, 6 textbooks and 9 exercise books. She could buy 4 textbooks and 6 exercise books with her remaining money but she spent all of it on magazines instead.
- (a) How many magazines did Fatin buy with the remaining money?
- (b) If Fatin had \$39.20, how much did each magazine cost?

Ans: a) _____ [3]

b) _____ [2]

End of Paper 2

Answer Key

EXAM PAPER 2013

SCHOOL : TAO NAN

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)9364645

17)1114

18)10/21

19)16°

20)280ml

21)13kg

22)169cm²

23)20%

24)

25)3/32

26)

27)24m

28)48

29)Wednesday and Thursday

30)300

Paper 2

1) $180^\circ - 84^\circ = 96^\circ$

$96^\circ \div 2 = 48^\circ$

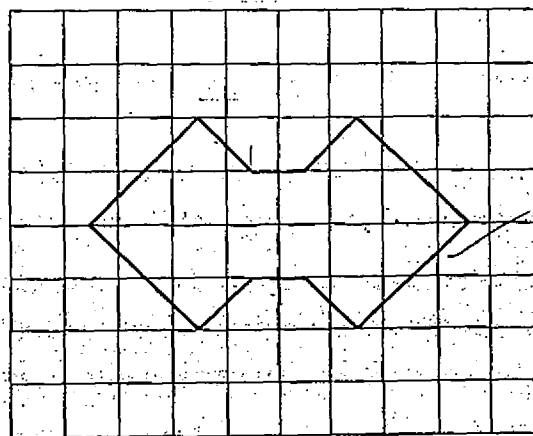
$180^\circ \div 3 = 60^\circ$

$60^\circ - 48^\circ = 12^\circ$

2) $755 \div 100 = 7.55$

$7.55 \times 7 = 52.85$

$755 + 52.85 = \$807.85$



3) $7 - 5 = 2$
 $104 \div 2 = 52$
 $7 + 5 = 12$
 $52 \times 12 = \$624$

4) $144 - 4 = 140$
 $140 \div 4 = 35$
 $35 + 2 = 37$

5) $36 \div 4 = 9$
 $9 \times 6 = 54 \text{ sweets}$

6) $3 + 1 = 4$
 $325 + 64 = 389$
 $389 \div 4 = 97.25$
 $97.25 \times 3 = 291.75$
 $325 - 291.75 = \$33.25$

7) $5.21 - 4.1 = 1.11$
 $1.11 \div 3 = 0.37$
 $0.37 \times 5 = 1.85$
 $5.21 - 1.85 = 3.36\text{kg}$

8) $58 + 32 = 90$
 $90 \times 2 = 180$
 $180 - 58 = 122$

9) $168 \div 8 = 21$
 $21 \times 9 = 189$
 $168 \div 7 = 24$
 $24 \times 11 = 264$
 $264 - 189 = 75$

10) a) $3 + 6 = 9$
 $2 + 4 = 6$
 $9 \div 6 = 1.5$

The average number of paintings he drew per hour is $1\frac{1}{2}$

b) $6 \div 9 = \frac{2}{3}$
 $60 \div 3 = 20$
 $20 \times 2 = 40 \text{ minutes}$

11)a) $40 - 9 = 31 \text{ cm}$

b) $9 \times 3 = 27$

$31 \times 27 \times \frac{1}{2} = 418.5 \text{ cm}^2$

12) $225 \div 3 = 75$

$4 + 7 = 11$

$75 \times 11 = 825$

$825 \div 15 = 55$

13) $68 \times 54 \times 30 = 110160$

$48 \times 50 \times 35 = 84000$

$84000 \div 5 = 16800$

$5 - 1 = 4$

$16800 \times 4 = 67200$

$110160 - 67200 = 42960$

$42960 \text{ ml} = 42 \text{ L } 960 \text{ ml}$

14)a) $180^\circ - 57^\circ - 57^\circ = 66^\circ$

$180^\circ - 66^\circ = 114^\circ$

$114^\circ \div 2 = 57^\circ$

$180^\circ - 83^\circ - 57^\circ = 40^\circ$

b) $180^\circ - 57^\circ = 123^\circ$

$123^\circ \div 3 = 41^\circ$

$41^\circ \times 2 = 82^\circ$

15)a) $150 \times 2 = 300$

$395 - 300 = 95$

$3 - 2 = 1$

$95 \div 1 = 95$

b) $150 - 95 = 55$

$95 \div 3 = 31 \text{ R}2$

$31 + 1 = 32$

$55 \div 3 = 18 \text{ R}1$

$18 + 1 = 19$

$32 + 19 = 51$

16) $8 - 3 = 5$

$562 \div 5 = 112.4$

$112.4 \times 8 = 899.2$

$899.2 \times 12 = \$10790.4$

17)a) $4500 \div 100 = 45$

$45 \times 10 = 450$

$450 + 200 = 650$

b) $45 \times 90 = 4050$

$4050 \div 5 = 810$

$810 \times 4 = 3240$

$3240 - 200 = 3040$

$3040 / 4500 \times 100 \approx 68\%$

18) $6TB - 4TB = 2TB$

$9EB - 6EB = 3EB$

$4TB + 6EB \rightarrow 2\text{units}$

$2TB + 3EB \rightarrow 1\text{unit}$

$2 + 1 = 3$

$5 - 3 = 2$

$2\text{units} \rightarrow 4\text{ magazines}$

$7 - 5 = 2$

a) She bought 4 magazines with the remaining money.

$39.20 \div 7 = 5.60$

$1\text{unit} \rightarrow 2\text{ magazines}$

$5.60 \div 2 = \$2.80$

b) Each magazine costs \$2.80