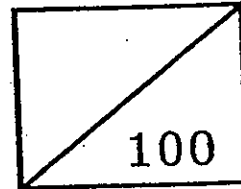




Rosyth School
Second Semestral Assessment 2010
Mathematics
Primary 4



Name: _____

Class: Pr 4-_____ Register No. _____ Duration: 1h 45 min

Date: 27th October 2010

Parent's Signature: _____

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 3 parts, Sections A, B and C.
4. For questions 1 to 20 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).

| | Maximum | Marks Obtained |
|-----------|---------|----------------|
| Section A | 40 | |
| Section B | 40 | |
| Section C | 20 | |
| Total | 100 | |

* This paper consists of 18 pages altogether.

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Section A (40 marks)

For each question, 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals (1, 2, 3 or 4) onto the Optical Answer Sheet provided. Each question carries 2 marks.

1. In which of the following numbers does the digit 5 stand for 5000?

(1) 3 675

(2) 4 506

(3) 5 640

(4) 6 450

2. 45 749 rounded off to the nearest hundred is _____.

(1) 45 700

(2) 45 740

(3) 45 750

(4) 45 800

3. Which of the following are common factors of 14 and 35?

(1) 1 and 7

(2) 2 and 5

(3) 3 and 5

(4) 4 and 7

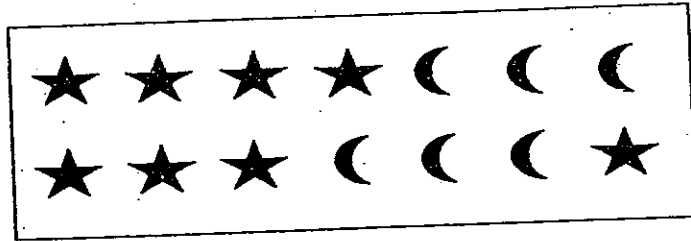
4. What fraction of the shapes in the box are ☾?

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

(2) $\frac{4}{7}$

(3) $\frac{3}{4}$

(4) $\frac{6}{7}$



5. $7\frac{3}{8} = \frac{\square}{8}$

What is the missing number in the box?

(1) 21

(2) 53

(3) 56

(4) 59

6. The digit 6 in 27.368 stands for 6 _____.

(1) ones

(2) tens

(3) tenths

(4) hundredths

Study the table below and use the information to answer question 7 and 8.

The table below shows the favorite subject of the pupils in Class 4-Cheerful.

| | English Language | Mother Tongue | Mathematics | Science |
|-------|------------------|---------------|-------------|---------|
| Boys | 5 | 3 | 8 | 7 |
| Girls | 6 | 5 | 4 | 4 |

7. Which subject do the pupils in 4-Cheerful like most?

- (1) English Language
- (2) Chinese Language
- (3) Mathematics
- (4) Science

8. Express the number of pupils who like Mother Tongue as a fraction of the total number of pupils in class 4-Cheerful.

- (1) $\frac{1}{14}$
- (2) $\frac{5}{42}$
- (3) $\frac{4}{21}$
- (4) $\frac{3}{5}$

9. Find the sum of 18.2 , 9 and $6\frac{2}{1000}$.

(1) 33.4

(2) 33.22

(3) 27.202

(4) 33.202

10. Ali took 50 min to reach home from the supermarket. He left the supermarket at 1445. What time would he reach home?

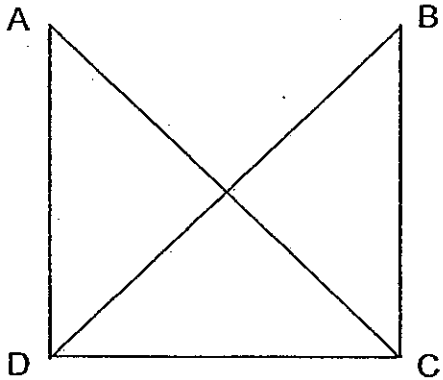
(1) 0335

(2) 1345

(3) 1435

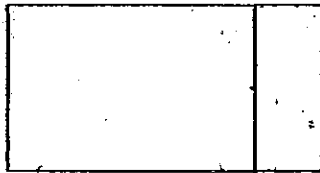
(4) 1535

11. One of the lines in the figure is parallel to AD. Which line is parallel to AD?



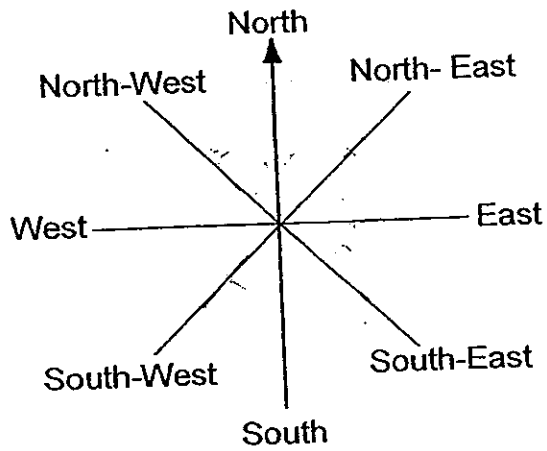
- (1) AC
- (2) BD
- (3) DC
- (4) BC

12. The figure below is made up of 2 rectangles and a square. How many right angles are there in the figure?



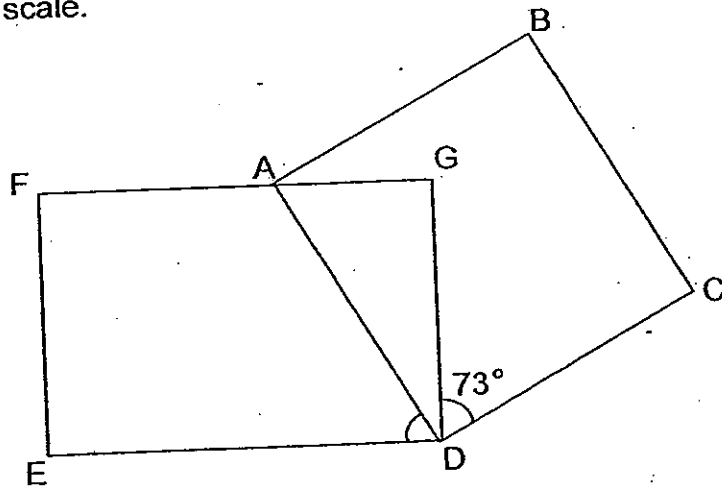
- (1) 8
- (2) 12
- (3) 16
- (4) 4

13. Alison is now facing North-West after turning 270° clockwise. What direction was she originally facing?



- (1) South
- (2) South-West
- (3) East
- (4) North-East

14. ABCD is a square and DEFG is a rectangle. Find the $\angle ADE$. The figure is not drawn to scale.

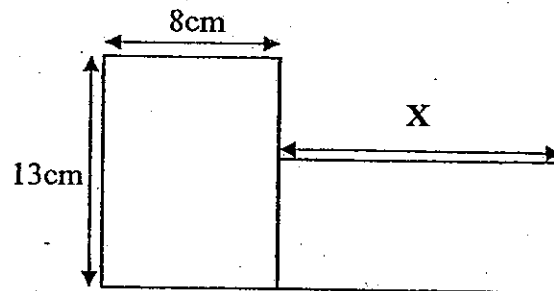


- (1) 17°
- (2) 27°
- (3) 63°
- (4) 73°

15. Annie bought some marbles. She gave $\frac{3}{5}$ of them to Betty. If she gave 21 marbles to Betty, how many marbles did she buy?

- (1) 35
- (2) 42
- (3) 63
- (4) 105

16. The figure below is not drawn to scale. It is made up of 2 rectangles. The perimeter of the figure is 70 cm. What is the value of X?



- (1) 10 cm
- (2) 14 cm
- (3) 28 cm
- (4) 42 cm

17. What is the length of the ticket as shown in the diagram below?



- (1) $7\frac{2}{5}$ cm
- (2) $7\frac{3}{5}$ cm
- (3) $8\frac{3}{5}$ cm
- (4) $9\frac{2}{5}$ cm

18. A packet of sugar is 2.3 kg lighter than a packet of flour. If the mass of the packet of flour is 41 kg, what is the mass of the packet of sugar?

- (1) 38.7 kg
- (2) 39.7 kg
- (3) 41.3 kg
- (4) 43.3 kg

19. Complete the following pattern.

$$1\frac{1}{2}, \frac{11}{6}, \frac{13}{6}, \square$$

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

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

(3) 3

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

20. Amanda bought 8 wallets. She gave the cashier \$155 and received \$3.80 change. Find the cost of 4 wallets.

(1) \$ 18.90

(2) \$ 75.60

(3) \$ 79.40

(4) \$ 151.20

Section B (40 marks)

For each question, show your working clearly in the space below each question and write your answer in the answer boxes provided. Give your answers in the units stated. Questions 21 to 40 carry 2 marks each.

- 21) Write eleven thousand, two hundred and seventy-four in figures.

- 22) Fill in the blank with the correct number in the number pattern below.

72 900 , 72 850 , 72 800 , _____ , 72 700

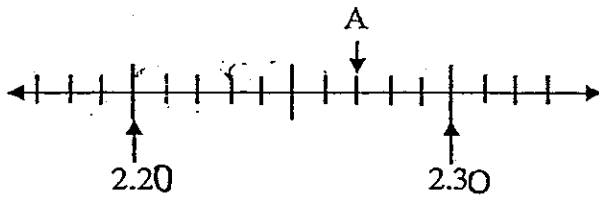
23) $\frac{2}{3} = \frac{\square}{9}$

What is the missing number in the box?

- 24) Write $\frac{26}{7}$ as a mixed number in its simplest form.

- 25) Find the value of $1 - \frac{1}{9} - \frac{1}{3}$.

26) Write the decimal represented by A.



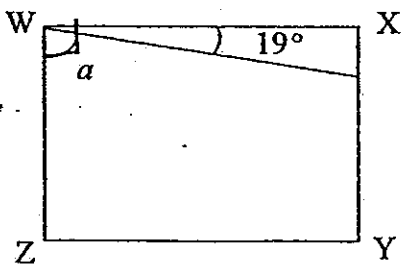
27) Write 7 tenths as a decimal.

28) Arrange the following numbers in order from the greatest to the smallest.

9.2 , 9.002 , 9.02 , 9.202

| | | | |
|----------|-------|-------|----------|
| _____ | _____ | _____ | _____ |
| greatest | , | | smallest |

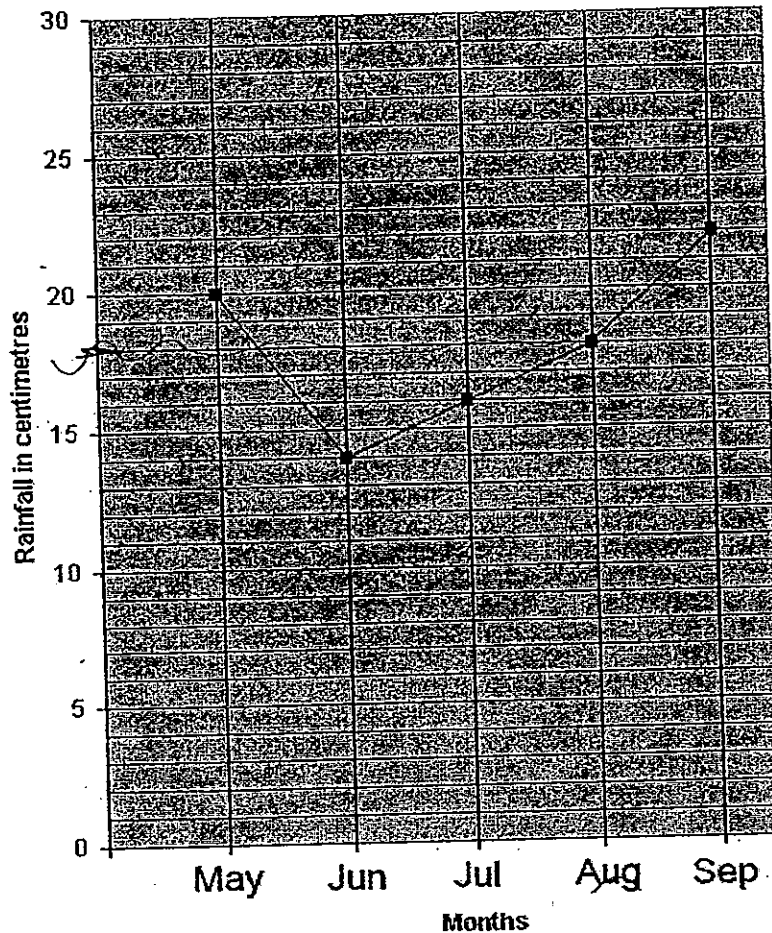
29) In the figure, WXYZ is a rectangle. Find the value of $\angle a$.



- 30) Chandra mixed $\frac{2}{3}$ kg of sugar with $\frac{7}{9}$ kg of flour. What was the mass of the mixture? Leave your answer as a mixed number.

kg

Study the graph below and use the information to answer question 31 and 32.
Total Monthly Rainfall in Singapore



- 31) What is the total rainfall in centimetres from May to July?

cm

- 32) What is the difference in rainfall between the month with the lowest rainfall and the month with the greatest rainfall in Singapore?

cm

- 33) I am greater than 80.1 but smaller than 80.5. I have a digit 2 in the tenths place and a digit 4 in the hundredths place. The value of the digit 1 is 0.001. What number am I?

- 34) Ahmad cycles 1.83 km to the library. Jun Xiang cycles 3 times as far as Ahmad. How far does Jun Xiang cycle? Round off your answer to 1 decimal place.

 km

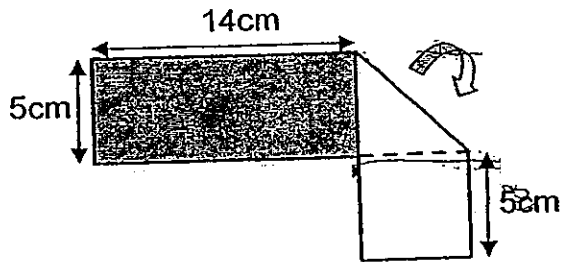
- 35) Gopal had \$318.40. His father gave him and his sister some money which were shared equally between them. If Gopal had \$469.90 now, how much did his father give them?

 \$

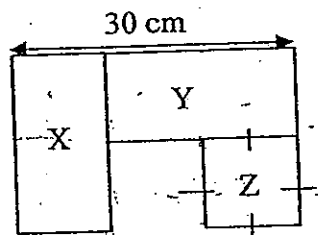
- 36) Mrs Lim opens her flower shop from 10.00 a.m. to 9.00 p.m. daily. She closes her shop for 1 hour for her lunch break and 30 minutes for her tea break. How long is the shop open daily?

 h min

- 37) A rectangular piece of paper is folded to form the shape shown below. Find the perimeter of the rectangular piece of paper before it was folded. (Figure is not drawn to scale)


 cm

- 38) Study the figure below. Rectangle X and Y are of the same area. The area of 1 rectangle is 2 times the area of square Z. (The figure is not drawn to scale)


 cm²

- 39) Mrs Lim had less than 30 marbles. She gave some marbles to her children. If she gave each child 6 marbles, she would have 5 extra marbles. If she gave each child 8 marbles, she would need 1 more marble. How many marbles did she have?

- 40) 4 exercise books cost as much as 2 pens. If 1 exercise book and 4 pens cost \$7.65, what is the cost of 1 exercise book?

 \$

Section C (5 x 4 marks)

For questions 41 to 45, show your working clearly in the space below each question and write your answers in the blanks provided. The marks for each question are given in the brackets.

41. Joel had 426 stickers and Aminah had 366 stickers. After each of them gave away the same number of stickers, Joel had 4 times as many stickers as Aminah. How many stickers did Aminah give away?

Answer: _____ (4 m)

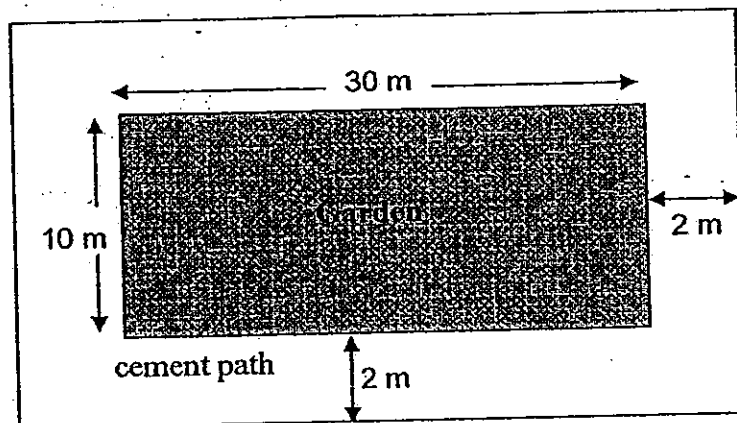
- 42) Siva bought \$945 worth of rackets at \$7 each. He had to throw some away as they were damaged. He sold the rest at \$9 each and collected \$1116. How many rackets did he throw away?

Answer: _____ (4 m)

- 43) Muthu bought 3 bags of sweets and 2 bags of biscuits for \$42. The cost of a bag of sweets was \$0.50 less than the cost of a bag of biscuits. Find the cost of 1 bag of sweets.

Answer: _____ (4 m)

- 44) A cement path 2 m wide is built around a rectangular garden which measures 30 m by 10 m. Find the area of the cement path. The figure below is not drawn to scale.

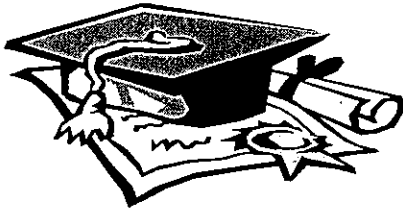


Answer: _____ (4 m)

- 45) A snail is climbing to the top of a garden wall. It starts from the bottom of the wall and after climbing up $\frac{2}{5}$ of the height of the wall, it begins to rain. During the rain, the snail slips down 2 m. When the rain stops, the snail climbs up the remaining $\frac{7}{10}$ of the height of the wall to reach to top of the wall. Find the height of the garden wall.

Answer: _____ (4 m)

~END OF PAPER~
Do check your work carefully.

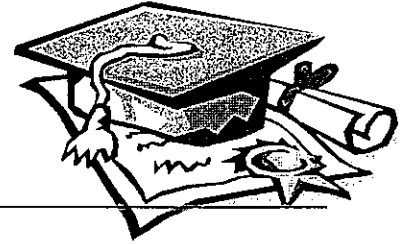


ANSWER SHEET

EXAM PAPER 2010

**SCHOOL : ROSYTH PRIMARY
SUBJECT : PRIMARY 4 MATHEMATICS**

TERM : SA2



| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Q16 | Q17 |
| 3 | 1 | 1 | 1 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 2 | 4 | 4 | 1 | 2 | 2 |

| | | |
|-----|-----|-----|
| Q18 | Q19 | Q20 |
| 1 | 1 | 2 |

- 21) 11274 22) 72750 23) 6 24) $3\frac{5}{7}$ 25) $\frac{5}{9}$
26) 2.27 27) 0.7 28) 9.202, 9.2, 9.02, 9.002
29) 71 30) $1\frac{4}{9}$ 31) 50 32) 8 33) 80.241
34) 5.5 35) 303 36) 9h 30 min 37) 58
38) 100 39) 23 40) \$0.85

| | |
|---|--|
| 41) $426 - 366 = 60$ $3u \rightarrow 60$ $1u \rightarrow 20$ $366 - 20 = \underline{346}$ | 42) $\$945 \div \$7 = 135$ $\$1116 \div \$9 = 124$ $135 - 124 = \underline{11}$ |
| 43) $\$0.50 \times 2 = \1 $\$42 - \$1 = \$41$ $5u \rightarrow \$41$ $1u \rightarrow \underline{\$18.20}$ | 44) length of big rec. = $30+2+2$ = 34m Breadth of big rec. = $10+2+2$ = 14m Area of big rec. = 34×14 = 476m^2 Area of small rec. = 10×30 = 300m^2 Area of path = $476 - 300$ = $\underline{176\text{m}^2}$ |

$$45) \frac{2}{5} = \frac{4}{10}$$

$$1 - \frac{7}{10} = \frac{3}{10}$$

$$\frac{4}{10} - \frac{3}{10} = \frac{1}{10} \text{ (slipped)}$$

$$1u \rightarrow 2m$$

$$10u \rightarrow \underline{20m}$$