



RED SWASTIKA SCHOOL

# RED SWASTIKA SCHOOL

## 2011 END-OF-YEAR EXAMINATION

### MATHEMATICS

Name : \_\_\_\_\_ (     )

Class : Primary 4 / \_\_\_\_\_

Date : 31 Oct 2011

### BOOKLET A

20 Questions

40 Marks

Duration of Paper : 1 hour 45 minutes

**Note:**

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
  - (a) Page 1 to Page 5
  - (b) Questions 1 to 20

Questions 1 to 20 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.

(40 marks)

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1 44 thousands and 3 tens is the same as \_\_\_\_\_.

- (1) 443
- (2) 4 430
- (3) 44 003
- (4) 44 030

2 72 is not a multiple of \_\_\_\_\_.

- (1) 6
- (2) 7
- (3) 8
- (4) 9

3 Which of the following is not an equivalent fraction of  $\frac{1}{4}$ ?

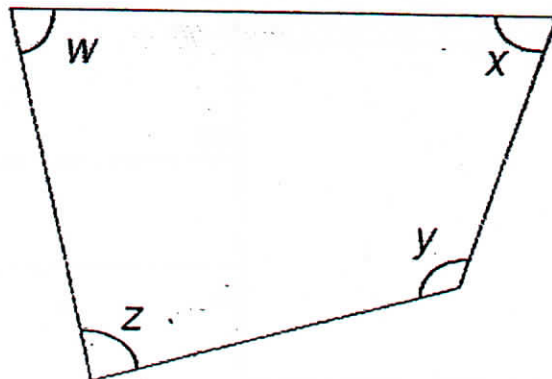
- (1)  $\frac{2}{8}$
- (2)  $\frac{3}{12}$
- (3)  $\frac{4}{18}$
- (4)  $\frac{5}{20}$

4  $6\frac{5}{7} = \frac{\square}{7}$

What is the missing number in the box?

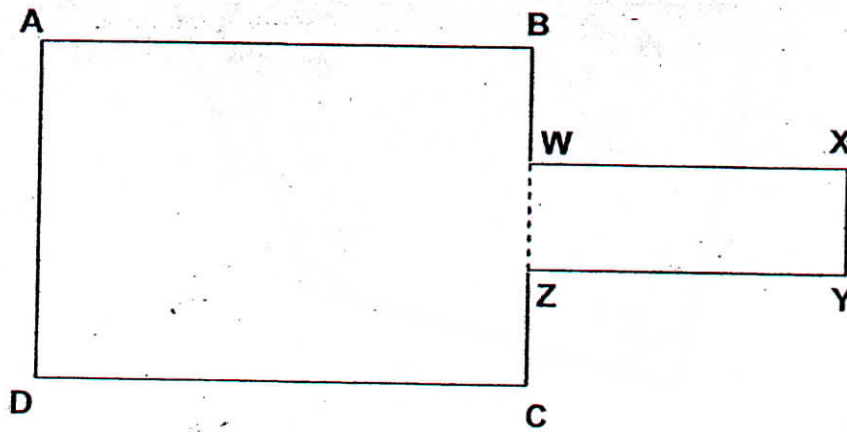
- (1) 30
- (2) 37
- (3) 42
- (4) 47

- 5 In the figure below, which angle is greater than a right angle? -



- (1)  $\angle w$   
(2)  $\angle x$   
(3)  $\angle y$   
(4)  $\angle z$
- 6 Find the sum of 0.5 and 83.21.
- (1) 82.71  
(2) 83.26  
(3) 83.71  
(4) 88.21
- 7 In which of the following numbers, does the digit '7' have the largest value?
- (1) 40 794  
(2) 45 470  
(3) 47 531  
(4) 49 687
- 8 What is the length of a square with an area of 64 cm<sup>2</sup>?
- (1) 8 cm  
(2) 16 cm  
(3) 32 cm  
(4) 48 cm

- 9 The figure is made up of 2 rectangles ABCD and WXYZ. Which of the following lines is perpendicular to AB?



- (1) CD  
(2) BW  
(3) WX  
(4) YZ
- 10 A rectangular piece of cardboard has a perimeter of 68 cm. What is the breadth of the piece of cardboard if its length is 21.5 cm?
- (1) 12.5 cm  
(2) 23.25 cm  
(3) 25 cm  
(4) 46.5 cm
- 11 20 tens, 5 tenths and 6 thousandths is the same as \_\_\_\_\_
- (1) 20.56  
(2) 20.506  
(3) 25.006  
(4) 200.506
- 12 0.375 is not equal to \_\_\_\_\_
- (1)  $\frac{3}{8}$   
(2)  $\frac{15}{40}$   
(3)  $\frac{375}{100}$   
(4)  $\frac{375}{1000}$

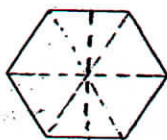
13 Divide 5 by 6. Round off your answer to the nearest tenth.

- (1) 0.8
- (2) 0.9
- (3) 1.2
- (4) 8.3

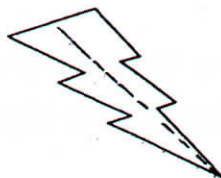
14 Which of the figures below has no line of symmetry?



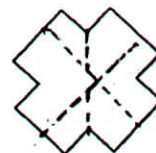
A



B



C



D

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

15 A group of children have 18 toy trains and 24 toy cars. Each type of toy is shared equally among the children. How many children are there in the group?

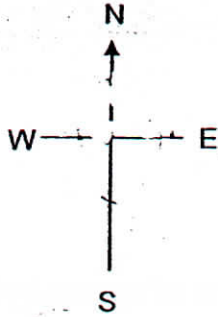
- (1) 21
- (2) 8
- (3) 6
- (4) 4

16 Mr Tan had some pork. He sold 12.55 kg of pork to Mrs Koh and 23.85 kg to Mrs Chan. The remaining amount of pork was packed equally into 3 packets of 7.3 kg each. How much pork did Mr Tan have at first?

- (1) 36.4 kg
- (2) 43.7 kg
- (3) 51.0 kg
- (4) 58.3 kg



Look at the diagram below carefully. Use it to answer Questions 17 and 18.



- 17 Eugene is facing West. How many  $\frac{1}{4}$ -turns in the anti-clockwise direction must he make to face North?
- (1) 1
  - (2) 2
  - (3) 3
  - (4) 4
- 18 Shirley and Tammy faced the same direction at first. Then Shirley turned  $135^\circ$  anti-clockwise and Tammy turned  $90^\circ$  clockwise. If Shirley faced East after the turn, which direction did Tammy face in the end?
- (1) South
  - (2) South-West
  - (3) North-West
  - (4) North-East
- 19 Mrs Foo wanted to bake 2 muffins each for 180 people. She needed 3 eggs to bake 4 muffins. How many eggs must she buy?
- (1) 90
  - (2) 270
  - (3) 360
  - (4) 480
- 20 Linda celebrated her birthday on Friday at 20 30. Kimberly celebrated her birthday 22 hours later. On what day and at what time did Kimberly celebrate her birthday?
- (1) Thursday 16 30
  - (2) Thursday 17 30
  - (3) Saturday 18 30
  - (4) Saturday 19 30



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### MATHEMATICS

Name : \_\_\_\_\_ ( )

Class : Primary 4 / \_\_\_\_\_

Date : 31 Oct 2011

### BOOKLET B

28 Questions

60 Marks

In this booklet, you should have the following:

- (a) Page 6 to Page 14
- (b) Questions 21 to 48

#### MARKS

	OBTAINED	POSSIBLE
BOOKLET A		40
BOOKLET B		60
TOTAL		100

Parent's Signature : \_\_\_\_\_

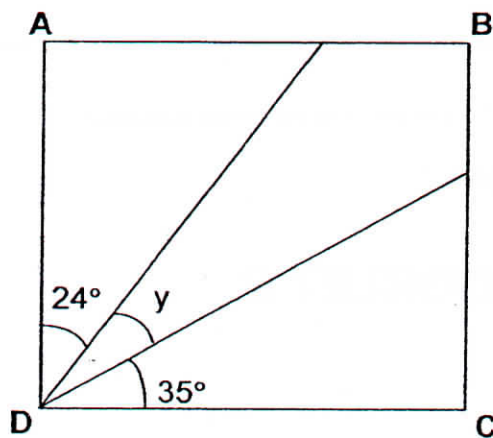
Questions 21 to 30 carry 1 mark each. Questions 31 to 40 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(30 marks)

21 What is the sum of all the factors of 12?

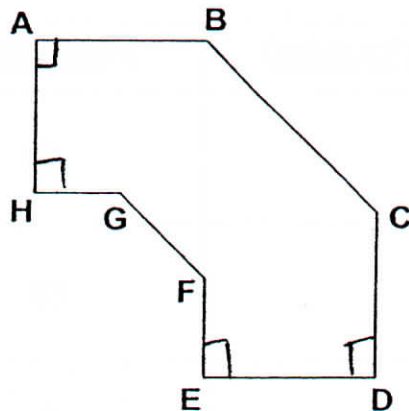
Ans: \_\_\_\_\_

22 The figure below, not drawn to scale, shows a square ABCD. Find  $\angle y$ .

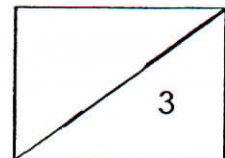


Ans: \_\_\_\_\_

23 In the figure below, how many pairs of perpendicular lines are there?

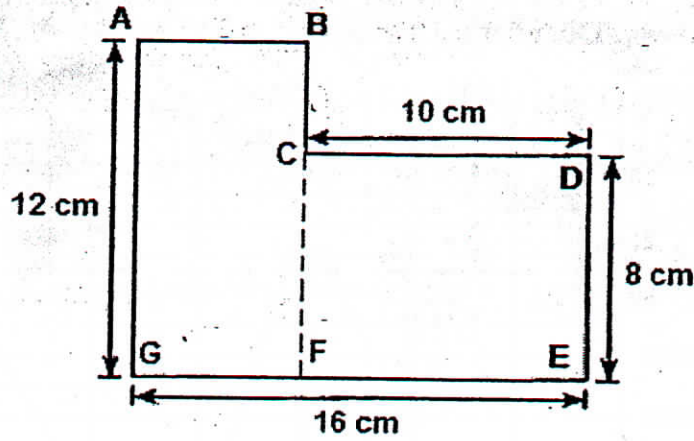


Ans: \_\_\_\_\_



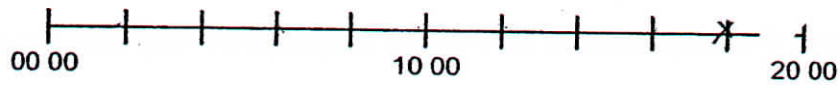


- 24 Find the perimeter of the figure below.



Ans: \_\_\_\_\_ cm

- 25 In the time line below, mark a cross (x) to show 6.00 pm.

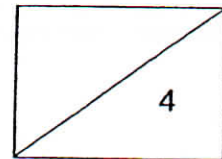


- 26 Benjamin had 34 155 picture cards. He had 6 479 picture cards more than Tommy. How many picture cards did both of them have altogether?

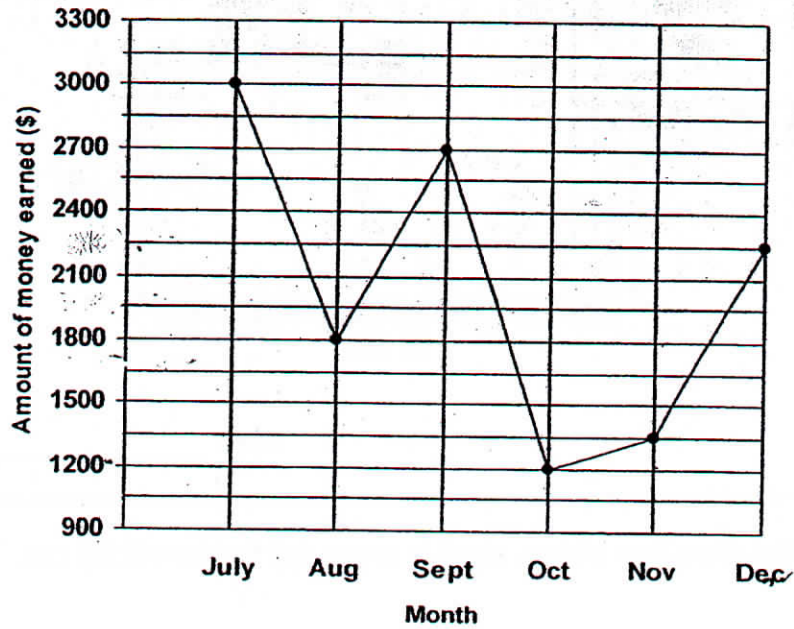
Ans: \_\_\_\_\_

- 27 Round off the difference of 165 hundredths and 73 tenths to 1 decimal place.

Ans: \_\_\_\_\_



The line graph below shows the amount of money Mr Wong earned from selling food from July to December. Study the graph carefully and use it to answer Questions 28 and 29.



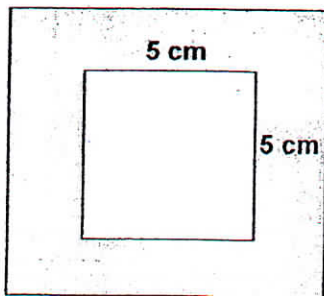
28 What was the difference in Mr Wong's earnings for July and October?

Ans: \$ \_\_\_\_\_

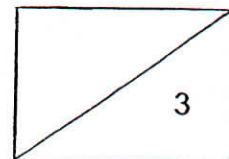
29 Mr Wong earned 2 times as much in one particular month than in another month. Which were the two months?

Ans: \_\_\_\_\_ and \_\_\_\_\_

30 The figure below is made up of 2 squares. If the shaded area is  $56 \text{ cm}^2$ , what is the area of the bigger square?



Ans: \_\_\_\_\_  $\text{cm}^2$



31 Write twelve thousand and sixty-two in figures.

Ans: \_\_\_\_\_

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32 Write the missing number in the number pattern below.

4 649 , 4 799 , 4 949 , \_\_\_\_\_ , 5 249

Ans: \_\_\_\_\_

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33 What number is 10 more than 9 997?

Ans: \_\_\_\_\_

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34 Which two of the fractions below are smaller than  $\frac{1}{2}$ ?

$\frac{2}{3}$  ,  $\frac{3}{7}$  ,  $\frac{4}{8}$  ,  $\frac{5}{11}$

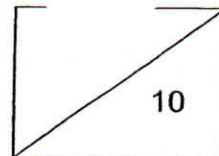
Ans. \_\_\_\_\_ and \_\_\_\_\_

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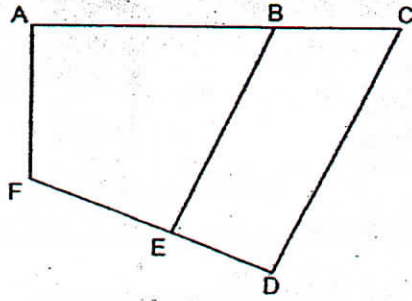
35 Find the value of  $1 - \frac{1}{6} - \frac{1}{3}$

Ans: \_\_\_\_\_

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- 36 In the figure below, one of the lines is parallel to BE.  
Which line is parallel to BE?



Ans: \_\_\_\_\_

- 37 Arrange the following numbers in order from the greatest to the smallest.

0.089 , 0.908 , 0.809

Ans: \_\_\_\_\_  
(greatest) (smallest)

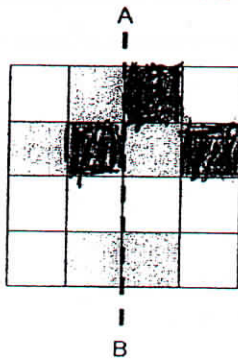
- 38 Round off 14.55 to the nearest whole number.

Ans: \_\_\_\_\_

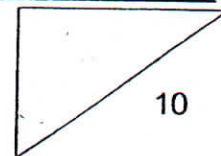
- 39 Find the value of  $5.83 \times 7$ .

Ans: \_\_\_\_\_

- 40 Shade three more squares to complete the figure which has the dotted line AB as a line of symmetry.



10





Questions 41 to 48 carry 3 or 4 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.  
(30 marks)

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- 41 Helen was preparing for her Science examination. She managed to revise  $\frac{1}{3}$  of her textbook on Saturday and  $\frac{5}{9}$  of it on Sunday.
- a) What fraction of the textbook did she revise in the two days?
- b) If she had 6 more pages to read, how many pages were there in the textbook?

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

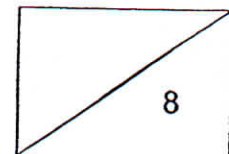
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- 42 Out of 200 people in a foodcourt,  $\frac{3}{5}$  of them were females. How many males wore ties if 36 of them did not wear ties?

Ans: \_\_\_\_\_ [4]

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11



35



- 43 Andrew, Bryan and Charles have 520 stickers. Andrew has  $\frac{1}{2}$  as many stickers as Bryan. Bryan has 20 fewer stickers than Charles. How many stickers does Charles have?

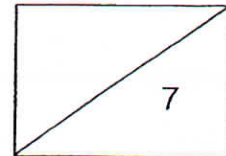
Ans: \_\_\_\_\_ [3]

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- 44 In November, Peter had twice as much savings as Rachel. In December, Peter did not save any money but Rachel managed to save \$917. Thus, she now has 4 times as much savings as Peter. Find their total savings in December.

Ans: \_\_\_\_\_ [4]

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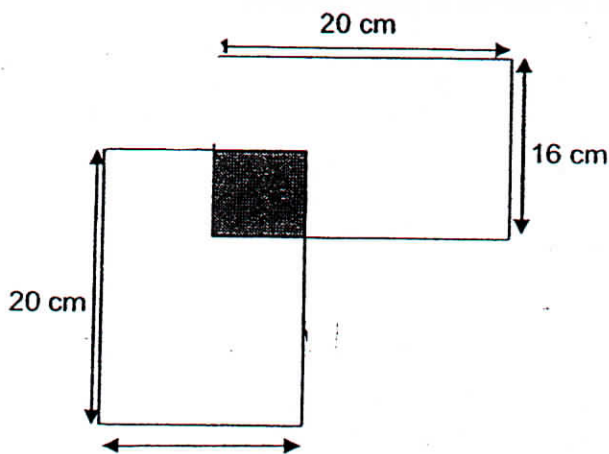


- 45 Mrs Toh has 2 classes of 38 pupils each. She wants to give 3 lollipops to each child. What is the minimum number of packets of lollipops she needs to buy if there are only 9 lollipops in each packet?

Ans: \_\_\_\_\_ [4]

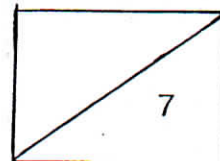
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- 46 The figure below is made up of 2 identical rectangles. The length of the rectangle is 20 cm and the breadth is 16 cm. The two rectangles overlap to form a shaded square of side 6 cm. Find the perimeter of the figure.



Ans: \_\_\_\_\_ [3]

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- 47 At the supermarket, Mrs Lim bought 3 kg of prawns at \$12.50 per kg and \$9.25 for some fruit. If she gave the cashier a \$100 note, how much change did she receive?

Ans: \_\_\_\_\_ [4]

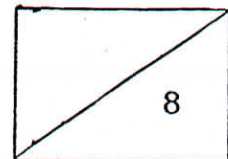
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- 48 4 similar books and 3 similar files cost \$70.50. 2 such books and 2 such files cost \$37. What was the cost of 2 such books?

Ans: \_\_\_\_\_ [4]

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End of Paper





# ANSWER SHEET

**EXAM PAPER 2011**

**SCHOOL : RED SWASTIKA  
SUBJECT : PRIMARY 4 MATHEMATICS**

**TERM : SA2**

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

Q18	Q19	Q20
3	2	3

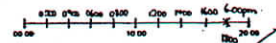
21)28

22)31°

23)4

24)56cm

25)



26)61831

27)5.7

28)\$1800

29)November and September

30)81cm<sup>2</sup>

31)12062

32)5099

33)10007

34)3/7, 5/11

35) 1/2

36)CD

37)0.908, 0.809, 0.089

38)15

39)40.81

36)

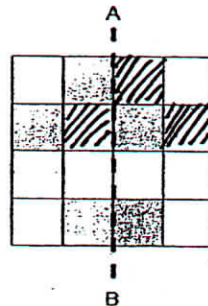
40)

41)a)  $1/3 = 3/9$

$$5/9 + 3/9 = 8/9$$

b)  $1u \rightarrow 6$

$$6 \times 9 = 54 \text{ pages}$$



42)  $1u \rightarrow 200 \div 5 = 40$

$$M \rightarrow 40 \times 2 = 80$$

$$80 - 36 = 44 \text{ of them wear ties}$$

43)  $520 - 20 = 500$

$$1u \rightarrow 500 \div 5 = 100$$

$$C \rightarrow 100 \times 2 = 200$$

$$200 + 20 = 220 \text{ stickers}$$

44)  $1u \rightarrow \$917 \div 7 = \$131$

$$\text{Total} \rightarrow \$131 \times 10 = \$1310$$

45)  $38 \times 3 = 114$

$$114 \times 2 = 228$$

$$228 \div 9 = 25R3$$

$$\approx 26 \text{ packets}$$

46)  $20\text{cm} - 6\text{cm} = 14\text{cm}$

$16 - 6\text{cm} = 10\text{cm}$

$20\text{cm} \times 2 = 40\text{cm}$

$16\text{cm} \times 2 = 32\text{cm}$

$14\text{cm} \times 2 = 28\text{cm}$

$10\text{cm} \times 2 = 20\text{cm}$

$40\text{cm} + 32\text{cm} + 28\text{cm} + 20\text{cm} = 120\text{cm}$

47)  $\$12.50 \times 3\text{kg} = \$37.50$

$\$37.50 + \$9.25 = \$46.75$

$\$100 - \$46.75 = \$53.25$

48)  $2\text{b}/1\text{f} \rightarrow \$70.50 - \$37 = \$33.50$

$1\text{f} \rightarrow \$37 - \$33.50 = \$3.50$

$2\text{f} \rightarrow \$3.50 \times 2 = \$7.00$

$2\text{b} \rightarrow \$37 - \$7 = \$30$

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