SA1

RULANG PRIMARY SCHOOL

Nurturing Competencies, Inspiring Excellence, Empowering Individuals
Scholars of Tomorrow

Established since 1930

Name : _____ ( )

Level : Primary Four

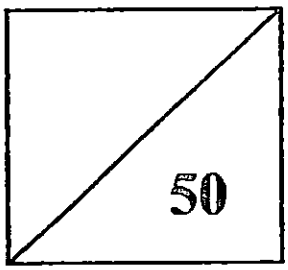
Class : Primary 4 ____

Date : 12 May 2015

Setter : Mdm Cecilia Ang

SEMESTRAL ASSESSMENT 1
2015
MATHEMATICS

PAPER 1



TOTAL TIME FOR PAPER 1: 1 hour 15 minutes
30 questions
50 marks

- **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**
- **READ ALL THE INSTRUCTIONS CAREFULLY.**
- **ANSWER ALL THE QUESTIONS.**

Questions **1** to **10** carry 1 mark each. Questions **11** to **20** carry 2 marks each. For each question, four options are given. One of these is the correct answer. Make your choice (1, 2, 3 or 4) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. **(30 marks)**

1. Which number has the digit 9 in the ten thousands place?
   1) 49 625
   2) 57 910
   3) 72 493
   4) 90 518

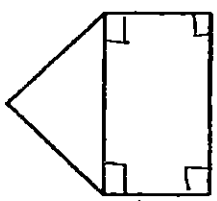
2. When 6049 is divided by 5, what is the remainder?
   1) 1
   2) 2
   3) 3
   4) 4

3. Express $2\frac{3}{8}$ as an improper fraction.
   1) $\frac{13}{8}$
   2) $\frac{14}{8}$
   3) $\frac{19}{8}$
   4) $\frac{26}{8}$

4. Through how many right angles does the minute hand of a clock turn in 30 minutes?
   1) 1
   2) 2
   3) 3
   4) 4

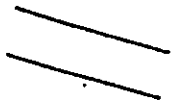
5. You start by facing south-east. Turn clockwise through 225°. Which direction are you facing now?
   1) North
   2) North-west
   3) South-west
   4) West

6. The figure below is made up of a rectangle and a triangle. How many pairs of perpendicular lines can you find in this figure?
   1) 7
   2) 6
   3) 5
   4) 4



7. Which of the following shows a pair of parallel lines?

1) 

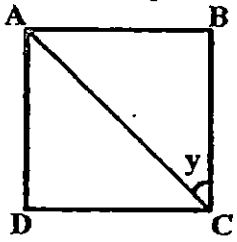
2) 

3) 

4) 

8. In the figure below, not drawn to scale, ABCD is a square. Find $\angle y$.

1) 35°
2) 40°
3) 45°
4) 50°

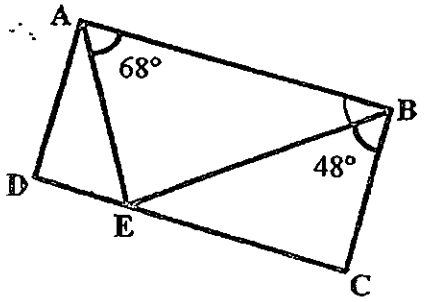


9. The side of a square is 6 cm. What is its area?

1) 24 cm^2
2) 36 cm^2
3) 48 cm^2
4) 72 cm^2

10. In the figure below, not drawn to scale, ABCD is a rectangle. Find $\angle EBA$.

1) 20°
2) 22°
3) 42°
4) 116°



11. Which of the following is a common factor of 15 and 24?

1) 7
2) 2
3) 3
4) 4

12. Jennifer has $240. This amount is thrice the amount of money Devi has. How much does Devi have?

1) $80
2) $237
3) $243
4) $720

13. Aini wrote a fraction on a piece of paper. The fraction is greater than $\frac{1}{2}$ but less than $\frac{5}{8}$. Which of the following is most likely the fraction she wrote?

1) $\frac{5}{7}$
2) $\frac{7}{16}$
3) $\frac{13}{24}$
4) $\frac{16}{32}$

14. Which of the following best describes the fraction of a turn the hour hand of a clock turns through from 1 p.m. to 8 p.m. on the same day?

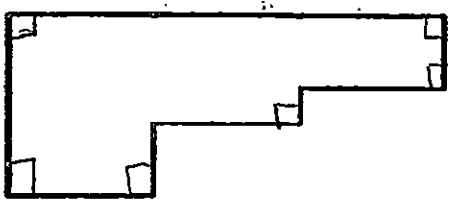
1) Less than $\frac{1}{4}$-turn
2) More than $\frac{1}{4}$-turn but less than $\frac{1}{2}$-turn
3) More than $\frac{1}{2}$-turn but less than $\frac{3}{4}$-turn
4) More than $\frac{3}{4}$-turn

15. The area of a rectangle is 270 cm^2. Its breadth is 9 cm. Find its perimeter.

1) 30 cm
2) 39 cm
3) 78 cm
4) 120 cm

16. How many right angles can you find inside the figure shown below?

1) 5
2) 6
3) 7
4) 8



17. Jim bought some stickers. He gave $\frac{2}{5}$ of them to Jerry. If he gave 18 stickers to Jerry, how many stickers had he left?

1) 9
2) 27
3) 36
4) 45

18. Renee bought a cake. What fraction of the cake should she eat so that the fraction of the cake left would be more than $\frac{7}{8}$ of the cake?

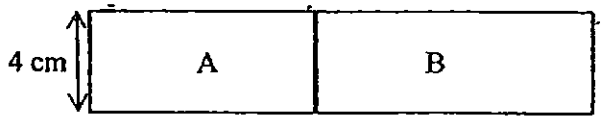
1) $\frac{1}{6}$
2) $\frac{1}{7}$
3) $\frac{1}{8}$
4) $\frac{1}{9}$

19. A cup costs \$18. A water bottle costs $\frac{2}{3}$ as much as the cup. What is the cost of the water bottle?

1) \$12
2) \$20
3) \$30
4) \$36

20. The figure below is made up of rectangles A and B with a total area of 56 cm^2. The area of rectangle A is 20 cm^2. What is the length of rectangle B?

1) 5 cm
2) 8 cm
3) 9 cm
4) 10 cm



Questions 21 to 30 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. **(20 marks)**

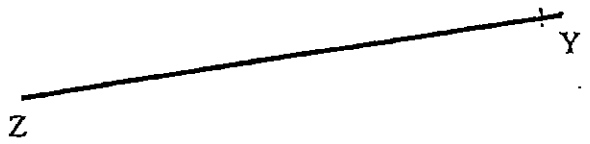
21. Write eighteen thousand and fifty-two in figures.

Ans: _____

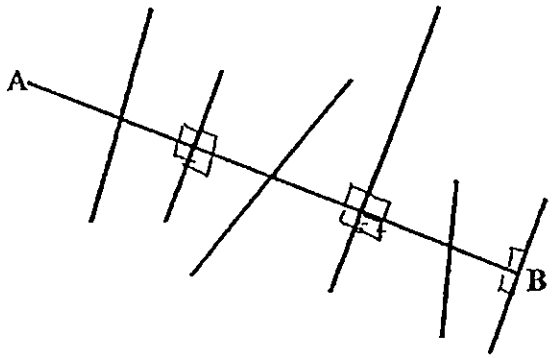
22. Find the product of 4729 and 9.

Ans: _____

23. Construct $\angle XYZ$ such that it is equal to 120°. Mark and label the angle.

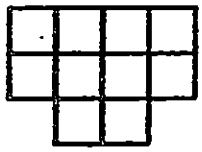


24. In the figure below, how many lines are perpendicular to AB?



Ans: _____

25. How many squares can you see in the figure below?



Ans: _____

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26. Add the largest 4-digit number to the smallest 4-digit number. What is the value of the digit in the thousands place?

Ans: _____

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27. Ray weighs 38 kg. His father is twice as heavy as he. His mother is 20 kg lighter than his father. What is his mother's mass?

Ans: _____ kg

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28. 8 boys stood $\frac{1}{10}$ m apart from one another in a straight line. What was the distance between the 2^{nd} and the 4^{th} boys in the line? Express your answer in its simplest form.

Ans: _____ m

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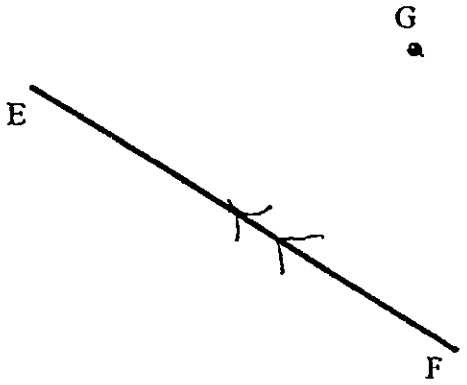
29. Use a set-square and a ruler to draw a line parallel to the line EF through the point G.



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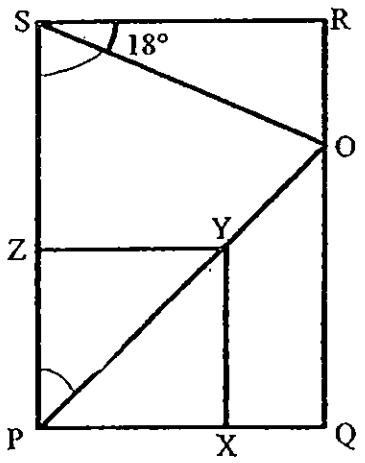
30. In the figure below, not drawn to scale, PQRS is a rectangle and XYZP is a square. OS and OYP are straight lines. What is the sum of ∠OSP and ∠ZPY?



Ans: _____

End of Paper 1

RULANG PRIMARY SCHOOL

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Established since 1930

Name : _____ ( )

Level : Primary Four

Class : Primary 4 ____

Date : 12 May 2015

Setter : Mrs Chua Yee Ling

Total Marks
Papers 1 & 2

100

SEMESTRAL ASSESSMENT 1
2015
MATHEMATICS

PAPER 2

50

TOTAL TIME FOR PAPER 2: 1 hour 30 minutes
18 questions
50 marks

- **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**
- **READ ALL THE INSTRUCTIONS CAREFULLY.**
- **ANSWER ALL THE QUESTIONS.**

Questions **1** to **10** 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. **(20 marks)**

1. Tom is thinking of a number which is a multiple of 3 and 5. It is greater than 50 but less than 70. What is the number that he is thinking of?

Ans: _____

2. Harry wrote a 5-digit number on a piece of paper. The number when rounded off to the nearest 1000 was 12 000. What was the greatest possible number that he had written?

Ans: _____

3. Mr Lee spent $3100 on a tour while Mr Yeo spent 3 times as much as Mr Lee. How much did they spend altogether?

Ans: $ _____

4. A shopkeeper had 100 cartons of canned drinks. In each carton, there were 30 canned drinks. He sold 46 cartons. How many canned drinks were left?

Ans: _____

5. Jenny mixed $\frac{7}{8}$ kg of flour with $\frac{3}{4}$ kg of sugar. What was the mass of the mixture?

Ans: _____ kg

6. Kimberly had \$28. She spent $\frac{3}{7}$ of it. How much money did she have left?

Ans: \$_____

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7. Dany had some packets of biscuits. He gave away 20 packets and had $\frac{3}{5}$ of the packets left. How many packets of biscuits did he have at first?

Ans: _____

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8. Kenneth made a clockwise $\frac{3}{4}$-turn and ended up facing the south-west direction. Which direction was he facing before he made the turn?

Ans: _____

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9. A square has the same perimeter as a rectangle measuring 5 cm by 3 cm. What is the area of the square?

Ans: _____ cm^2

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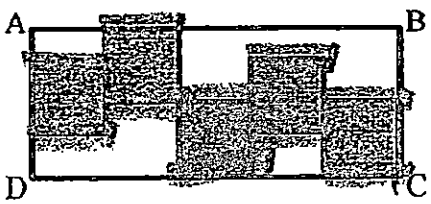
10. The picture below shows a rectangle ABCD and five 10-cm squares. What is the area of the rectangle that is not covered by the squares?



Ans: _____ cm^2

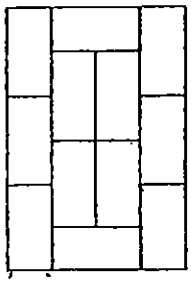
For Questions **11** to **18**, show your working clearly and write your answers clearly in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question. **(30 marks)**

11. There are some yellow and red files on a shelf. $\frac{5}{8}$ of them are yellow. There are 60 red files.

How many files are there on the shelf?

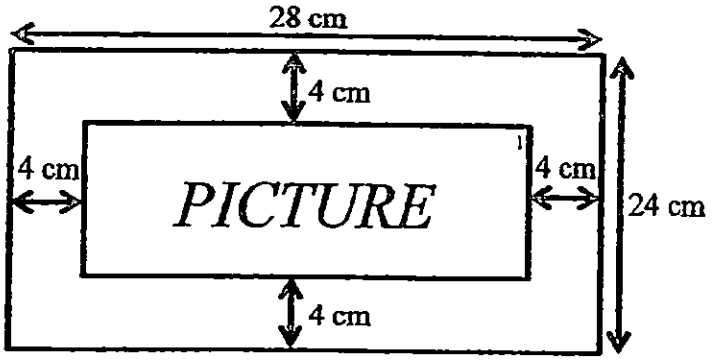
Ans: _____ [3]

12. 12 identical rectangles are put together to form a bigger rectangle as shown in the picture below. The length of each smaller rectangle is 6 m. What is the area of the whole figure?



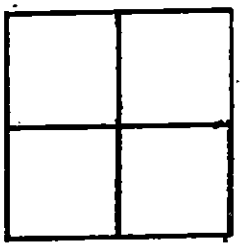
Ans: _____ [3]

13. Linda pasted a picture on a cardboard, measuring 28 cm by 24 cm, leaving a border of 4 cm width around it. She then pasted 2-cm gold square stickers on the border to decorate the border. None of the stickers overlapped one another. How many of such stickers did she paste on the border?



Ans: _____ [3]

14. A worker has to draw 4 squares on the floor of a hall as shown below. The 4 squares will cover an area of 100 cm^2. Find the total length of all the lines that he will draw.



Ans: _____ [3]

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15. Ricky bought 5 cups and 4 plates for $32. Kelly bought 3 cups and 2 bowls for $24. Each bowl cost twice as much as a plate. Find the cost of 1 plate.

Ans: _____ [4]

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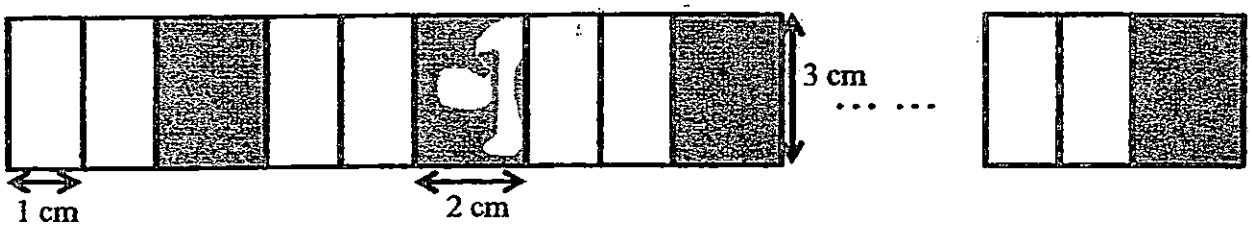
16. Joe used 2 different colours and sizes of rectangular strips of paper to form a bigger rectangle as shown in the picture below. The area of the bigger rectangle formed was 936 cm^2. None of the rectangular strips overlapped one another. How many strips of paper did he use to form the bigger rectangle?



Ans: _____ [4]

17. There are 500 marbles in Tank A and Tank B. If 15 marbles are moved from Tank A to Tank B, there will be 20 more marbles in Tank B than in Tank A. How many marbles are there in each tank?

Ans: Tank A: _____

Tank B: _____ [5]

18. Three boxes contain a total of 200 picture cards. The first box contains 50 more cards than the second box. The third box contains $\frac{1}{2}$ of the number of cards in the second box.

a) How many cards are there in the second box?

b) How many more cards are there in the first box than in the third box?

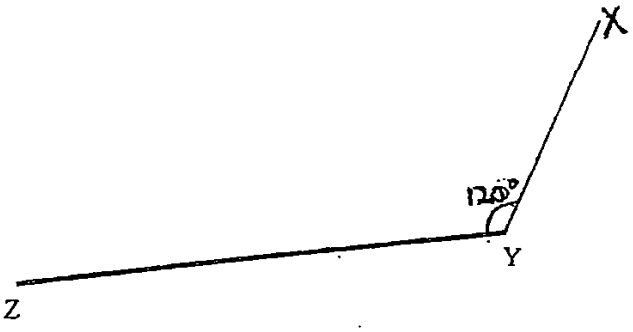
Ans: a) _____ [3]

b) _____ [2]

EXAM PAPER 2015
LEVEL : PRIMARY 4
SCHOOL : RULANG PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
4	4	3	2	1	4	2	3	2	3
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
3	1	3	3	3	2	2	4	1	3

Q21. 18 052 Q22. 42 561 Q23. **SEE PICTURE**

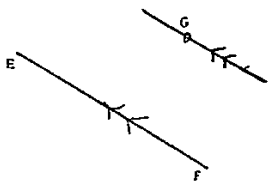


Q24. 3 lines Q25. 14 squares ➔□ ➔10 , ⊞➔4, 10 + 4 = 14

Q26. 0 ➔ 1000 + 9999 = 10999

Q27. 56kg ➔ 38 x 2 = 76, 76 – 20 = 56

Q28. $\frac{1}{5}$m ➔ $\frac{1}{10} + \frac{1}{10} = \frac{2}{10} = \frac{1}{5}$ Q29. **SEE PICTURE**



two arrows is for 4 lines but if 2 lines then only one arrow.

Q30. 117, 90 ÷ 2 = 45, 90 – 18 = 72, 72 + 45 = 117

Q1.60 ➔3 x 5 = 15, 15 x 4 = 60 Q2. 12 499

Q3. $12 400➔ 3100 x 4 = 12 400

Q4. 1620 ➔100 – 46 =54, 54 x 30 = 1620

Q5. $1\frac{5}{8}$kg ➔$\frac{3}{4}$X 2 =$\frac{6}{8}$, $\frac{6}{8} + \frac{7}{8} = \frac{13}{8} = 1\frac{5}{8}$

Q6. $16 → 28÷7 =4, 7 – 3 = 4, 4 x 4 = 16

Q7. 50 packets of biscuits. → 5–3 = 2, 20 ÷ 2 = 10, 10 x5 = 50

Q8. North West

Q9. 16 → 5 +5+3+3 = 16, 16÷4 = 4, 4 x4 = 16

Q10. 500cm²
10x 5 = 50,10x2 = 20, 50 x 20 = 1000, 10x10 = 100, 100 x5 = 500

Q11. 160 files altogether → 8–5=3, 60÷3=20,20 x 8 = 160.

Q12. 216m²
6x3 = 18, 6x2=12,
18-12=6, 6÷2 =3,6+3+3 =12,
12 x 18 = 216

Q13. 88 stickers.
28 x 24 = 672, 4 +4= 8, 28–8=20, 24 –8 = 16,
20 x 16 = 320, 672 –320=352,
2x2=4, 352÷4 =88.

Q14. 60cm →10 x10 = 100, 10 x 6 = 60

Q15. $3 → 32 – 24 = 8, 8÷2 = 4, 5 x 4 =20, 32–20 = 12, 12÷4 = 3

Q16. 234 strips of paper.
3x1=3, 3x2 =6, 2x3 =6, 6+6=12,
936÷12 =78, 78 x 3 = 234

Q17. Tank A : 255 marbles
20 – 15 =5,15 + 5 = 20, 500 –20 = 480,
480 ÷ 2 = 240, 240 + 15 = 255

Q17. Tank B: 245 marbles →240 + 5 = 245

Q18a. 60 cards → 200 – 50 = 150, 150÷ 5 = 30, 30 x 2 = 60.

Q18b. 80 more cards →30 + 50 =80