

NANYANG PRIMARY SCHOOL
SECOND SEMESTRAL EXAMINATION
2008

PRIMARY 5
MATHEMATICS
PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20	Paper 1 Total: / 40
Booklet B	/ 20	

Name: _____ ()

Class: Primary 5 ()

Date: 30 October 2008

Parent's Signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

Paper 1 (Booklet A)

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 How many thousands are there in the product of 45 hundreds and 20 tens?

- (1) 900
- (2) 9000
- (3) 90 000
- (4) 900 000

2 Samantha was given $\frac{4}{5}$ h to complete her homework. She used $\frac{3}{4}$ of the given time to complete it. How much time had she left?

- (1) $\frac{1}{20}$ h
- (2) $\frac{1}{5}$ h
- (3) $\frac{11}{20}$ h
- (4) $\frac{3}{5}$ h

- 3 $\frac{1}{3}$ of a cake was shared equally among 4 boys. What fraction of the whole cake did each boy have?

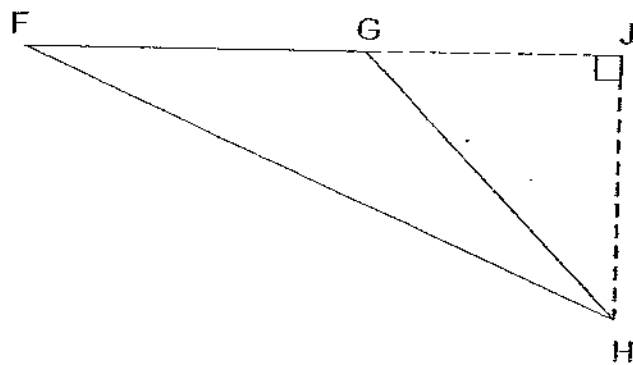
(1) $\frac{1}{12}$

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

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

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

- 4 What is the base of triangle FGH if its height is HJ?



(1) GL

(2) GH

(3) FG

(4) FJ

5 What is the missing number in the box?

$$2 : 7 = 14 : \boxed{}$$

- (1) 14
- (2) 19
- (3) 23
- (4) 49

6 What is the missing number?

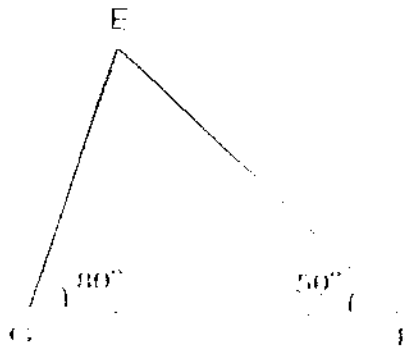
$$7.301 = \underline{\hspace{2cm}} \times 1000 \div 100$$

- (1) 0.7301
- (2) 7.301
- (3) 73.01
- (4) 730.1

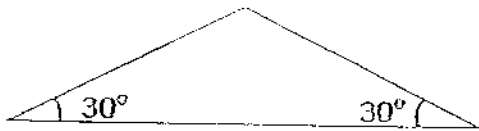
7 Express $\frac{4}{25}$ as a percentage.

- (1) 4%
- (2) 8%
- (3) 16%
- (4) 25%

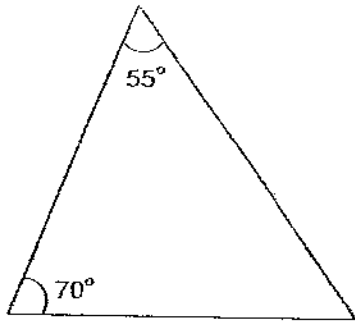
8 The figure below shows triangle EFG which is not drawn to scale



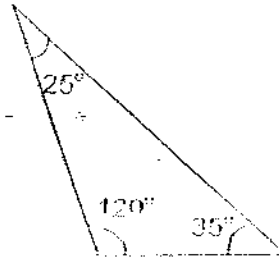
Which of the following triangles, which are not drawn to scale, has/have the same properties as triangle EFG?



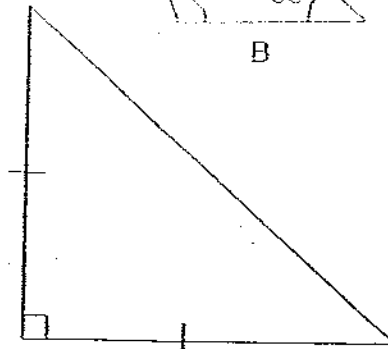
A



C



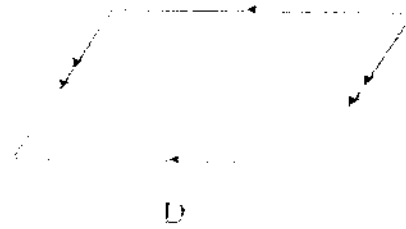
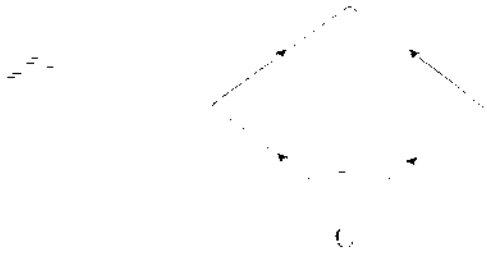
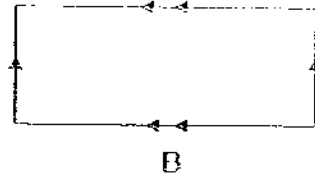
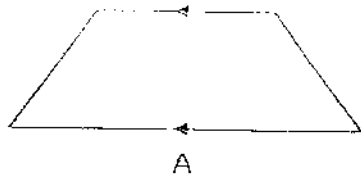
B



D

- | | |
|------------------|---------------------|
| (1) A only | (2) A and B only |
| (3) A and D only | (4) A, C and D only |

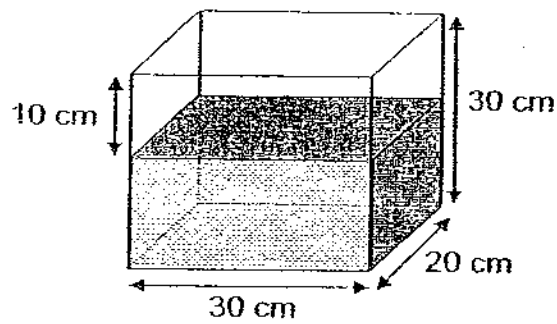
9 The following figures are not drawn to scale.



Which of the above figures is/are parallelograms?

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

10 A container is filled with some water as shown below.



How many cubic centimetres of water have to be added in to fill up the container completely?

- (1) 6000
(2) 9000
(3) 12 000
(4) 18 000

11 There are 15 green beads, 6 yellow beads and 4 blue beads in a bag. Express the ratio of yellow beads to the sum of the green and blue beads.

(1) 3 : 2

(2) 6 : 19

(3) 4 : 21

(4) 6 : 25

12 The average savings of 2 girls and 2 boys is \$250. Each girl saves \$50 more than each boy. Find the savings of one boy.

(1) \$75

(2) \$225

(3) \$275

(4) \$900

13 Bert is thrice as heavy as Charles and Aloysius is twice as heavy as Bert. Bert is 24.6 kg heavier than Charles. What is Aloysius's mass?

(1) 12.3 kg

(2) 24.6 kg

(3) 36.9 kg

(4) 73.8 kg

Name: _____ () Class: Pr 5 ()

P5 SA2 2008

Paper 1 (BOOKLET B)

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

(10 marks)

16 Write six million, thirty-five thousand and forty-two in figures.

Ans: _____

17 What is the value of $36 \div (24 \div 4 \times 3) + 2 \times 22$?

Ans: _____

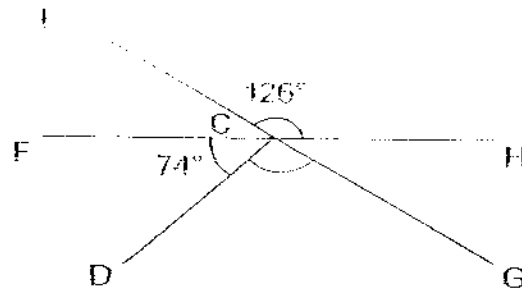
18 Royston cuts a piece of ribbon into 2 pieces in the ratio of 3 : 5.
The length of the shorter piece is 27 cm.
Find the length of the longer piece.

Ans: _____ cm

- 19 Apples are sold at 3 for \$1 or \$0.40 each. What is the maximum number of apples Thomas can buy with \$11.50?

Ans: _____

- 20 In the figure, not drawn to scale, EC and EH are straight lines. Find $\angle G$.

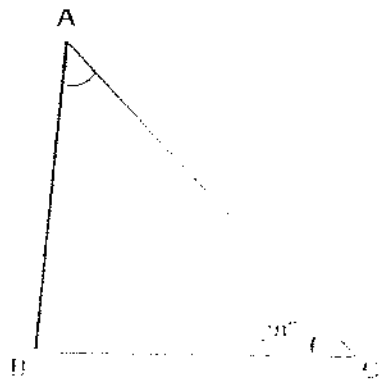


Ans: _____°

- 21 Ray finished $\frac{2}{3}$ of his Math homework. What percentage of his Math homework did he finish? Give your answer rounded off to 2 decimal places.

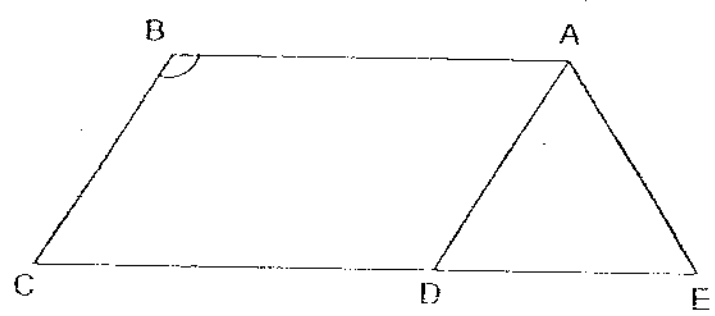
Ans: _____%

- 22 The figure below shows triangle ABC which is not drawn to scale. Given that $\angle ABC$ is 3 times of $\angle ACB$, find $\angle BAC$.



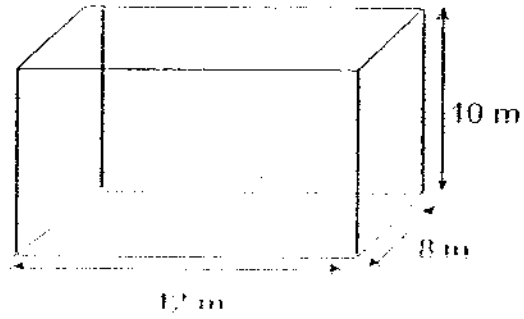
Ans : _____ °

- 23 In the figure below, not drawn to scale, ABCD is a parallelogram and ADE is an equilateral triangle. Find $\angle CBA$.



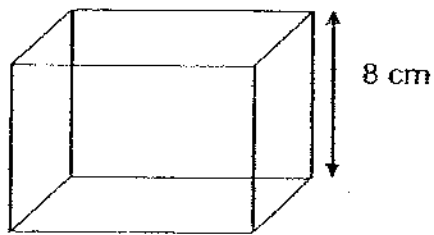
Ans : _____ °

- 24 What is the maximum number of 4 m cubes that can be placed inside the box below?



Ans: _____

- 25 The cuboid below has a volume of 320 cm^3 . Find the base area of the cuboid.



Ans: _____ cm^2

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 The sum of three numbers is 200. The difference between the biggest number and the second number is 60. The difference between the second number and the smallest number is 25. What is the biggest number?

Ans: _____

- 27 A production team in a factory needs $\frac{6}{7}$ week to put together all the parts for a Monster truck. How many days does the team need to put together 7 similar trucks?

Ans: _____

- 28 In a competition, the ratio of the number of stickers Susan collected to the number of stickers Joan collected was 3 : 7. Joan has 36 more stickers than Susan. How many stickers must Joan give to Susan so that they will have the same number of stickers?

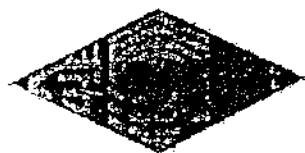
Ans: _____

- 29 Siva made 7.2 l of orange squash at a funfair. Mason made 2500 ml less orange squash than Siva. Johan made twice as much orange squash as Mason. How much orange squash did Johan make?

Ans: _____ l

- 30 8 school teams took part in a basketball tournament. Each school team played one match against each of the rest of the school teams. How many matches were played altogether?

Ans: _____



NANYANG PRIMARY SCHOOL
SECOND SEMESTRAL EXAMINATION
2008

PRIMARY 5
MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name: _____ ()

Class: Primary 5 ()

Date: 30 October 2008

Parent's Signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

YOU ARE ALLOWED TO USE A CALCULATOR.

PAPER 2

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)

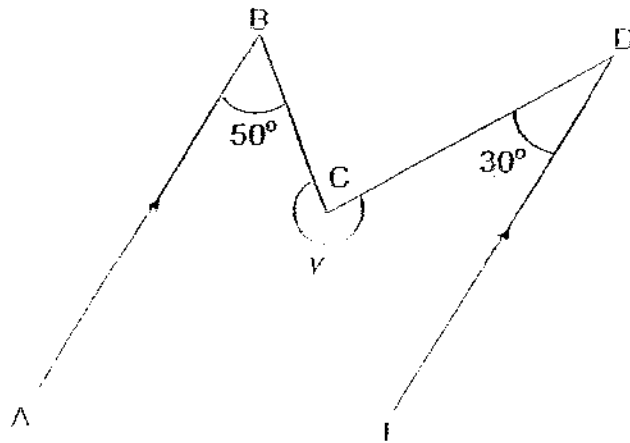
-
- 1 The price of a LCD television is \$3500 and the price of a laptop is \$2680. Round off the price of each item to the nearest thousand dollars and estimate the total cost of 18 such televisions and 25 such laptops.

Ans: \$ _____

-
- 2 A tank was filled with some water at first. Da Qiao added $1\frac{1}{3}$ litres of water into the tank. Then, he poured away $2\frac{1}{2}$ litres of water. There was $1\frac{1}{4}$ litres of water left in the tank. How much water was there in the tank at first?

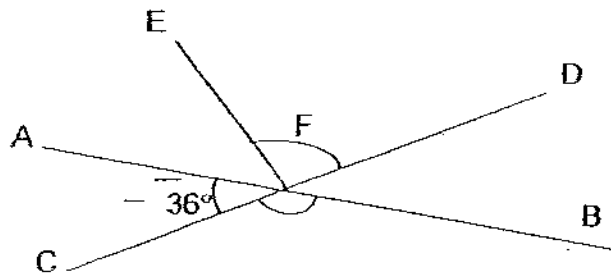
Ans: _____ l

- 3 In the figure below, not drawn to scale, AB and DE are both parallel lines. AB, BC, CD and DE are straight lines. Find $\angle y$.



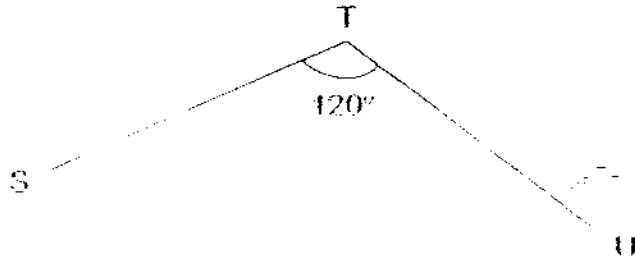
Ans: _____°

- 4 The figure below is not drawn to scale. AB and CD are straight lines. Given that $\angle AFC$ is 36° and $\angle EFD$ is twice of $\angle AFE$, find the sum of $\angle EFD$ and $\angle CFB$.



Ans: _____°

- 5 In the space below, draw a rhombus $STUV$ in which $ST = TU = 4$ cm and $\angle STU = 120^\circ$. The lines ST and TU have been drawn for you.



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 At a restaurant, the cost of a meal before GST for Mr Lee and his 3 friends was \$320. If they had to pay 7% GST for the meal, how much did each person have to pay if the bill was shared equally among all of them?

Ans: _____ [3]

-
- 7 There were 100 chairs in a hall. Lin Chong numbered all the chairs in running order starting from 1. What was the total number of digits he had written?

Ans: _____ [3]

- 8 There were a total of 162 papayas, apples and oranges in the ratio of 2 : 3 : 4 respectively. The fruit vendor bought another 30 apples. Express the ratio of the number of papayas to the number of apples to the number of oranges at last. Leave your answer in the simplest form.

Ans: _____ [3]

- 9 Mrs Sullivan went shopping with 5 more ten-dollar notes than two-dollar notes. After paying \$150 for a suitcase with some ten-dollar notes, her number of two-dollar notes is now 3 times as many as her number of ten-dollar notes. How many ten-dollar notes did she have at first?

Ans: _____ [3]

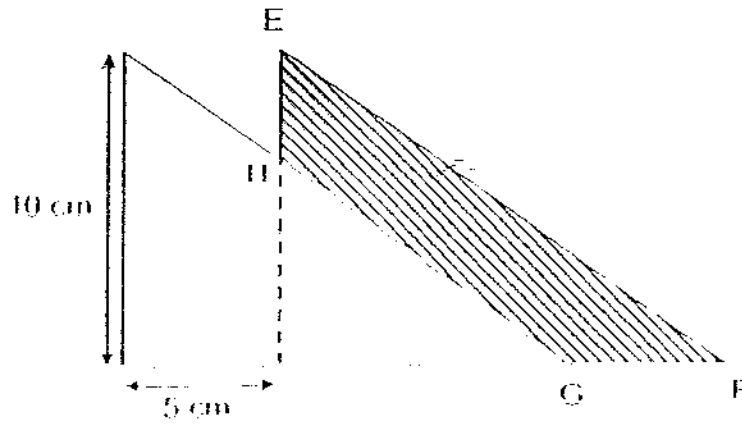
- 10 A rectangular tank 45 cm long, 28 cm wide and 20 cm high is filled with water up to $\frac{1}{4}$ of its height. Water from a tap flows into the tank at 2.5 litres per minute. How much water is in the tank after 5 minutes? Express your answer in litres. (1 l = 1000 cm³)

Ans: _____ [3]

11 David, Joseph and Max had some money each. If David gave Joseph \$180.95, David and Joseph will have an equal amount of money. If Joseph gave \$180.95 to David, he would have $\frac{1}{3}$ of what David had. Max's amount of money is the total amount of money of the other two boys. How much money did they have altogether?

Ans: _____ [4]

- 12 The figure below, not drawn to scale, is made up of two identical right-angled triangles overlapping each other. Find the area of the shaded part EFGH, where $EH = 3$ cm.



Ans: _____ [4]

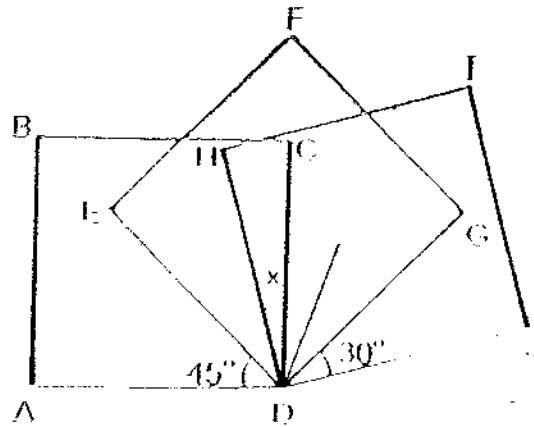
- 13 A salesgirl earns a basic salary of \$1050 a month. She also earns an additional \$0.40 for every \$5 of sales she makes. In 8 months, the total sales she made was \$48 000. What was her average monthly earnings in these 8 months?

Ans: _____ [4]

- 14 There were a total of 300 red and white buttons in a box. 40% of the buttons were red and the rest were white. Alfred took out some white buttons. As a result, the remaining red buttons made up 80% of the buttons left in the box. How many white buttons did Alfred remove?

Ans: _____ [4]

- 15 The figure below, not drawn to scale, is made up of three identical squares ABCD, DEFG and DHIJ. Find $\angle x$.



Ans: _____ [4]

- 16 I have a total of 522 pieces of 50-cent, 20-cent and 10-cent coins in a coin box. There are 6 more 20-cent coins than 50-cent coins and four times as much 10-cent coins as 20-cent coins. Find the total value of the 10-cent coins and 50-cent coins.

Ans: _____ [5]

- 17 In a warehouse, 40% of the mobile phones are Brand A, 80% of the remainder are Brand B and the rest are Brand C. There are 648 more Brand B than Brand A mobile phones. After some Brand A mobile phones have been shipped out, 10% of the remaining mobile phones in the warehouse are Brand A. How many Brand A mobile phones have been shipped out?

Ans: _____ [5]

- 18 A rectangular container, 80 cm by 12 cm by 8 cm, was $\frac{3}{4}$ filled with oil. A cubical tank of edge 15 cm was filled with oil to a height of 8 cm. When some oil from the container was poured into the tank until the tank was filled up to its brim, what was the height of the oil left in the container? (Correct your answer to 2 decimal places.)

Ans: _____ [5]

END OF PAPER

Settlers : Mdm Yee Yin Mei
Mr Brandon Ng

ANSWER SHEET

EXAM PAPER 2008

SCHOOL : HANYANG PRIMARY SCHOOL

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA 2

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

16)6035042

17)46

18)45cm

19)34

20)52°

21)66.67%

22)68°

23)120°

24)12

25)40cm

26)115

27)42

28)18

29)94

30)28

Paper 2

1)\$147000

2)25/12

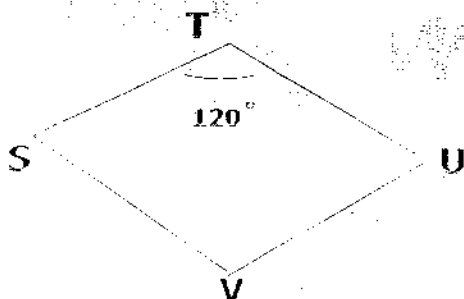
3)280°

4)240°

5)

6)\$85.60

7)192



8)3:7:6

9)20

10)18.80L

11)2895.20

12)42.5cm

13)\$1530

14)150

15)15°

16)\$76.20

17)2700

18)4.36cm