

Pei Chun Public School
Continual Assessment 1 – 2009
Mathematics
Primary 6

Paper 1 (Booklet A)

You are not allowed to use a calculator.

Name: _____ ()

Date: 5 March 2009

Class: Primary 6 _____

Total Time for Booklets A and B: 50 min

Maths Teacher : _____

Parent's signature : _____

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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.
(20 marks)

1. Round off 1 563 706 to the nearest thousand.

(1) 1 560 000

(2) 1 563 000

(3) 1 563 700

(4) 1 564 000

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2. What is the value of $18 - 6 + 2 \times 5$?

(1) 22

(2) 2

(3) 50

(4) 70

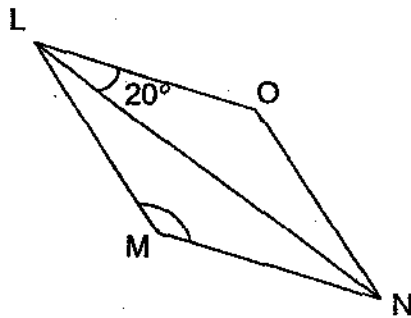
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3. A machine labels 120 bottles in 1 minute. At this rate, how many bottles does it label in 20 seconds?

- (1) 60
- (2) 40
- (3) 24
- (4) 20

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4. LMNO is a rhombus.

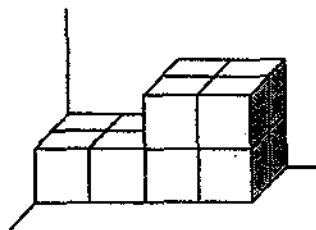


Find $\angle LMN$.

- (1) 50°
- (2) 100°
- (3) 140°
- (4) 160°

()

5. The solid below is made up of 1-cm cubes.



How many 1-cm cubes are there?

- (1) 8
- (2) 10
- (3) 11
- (4) 12

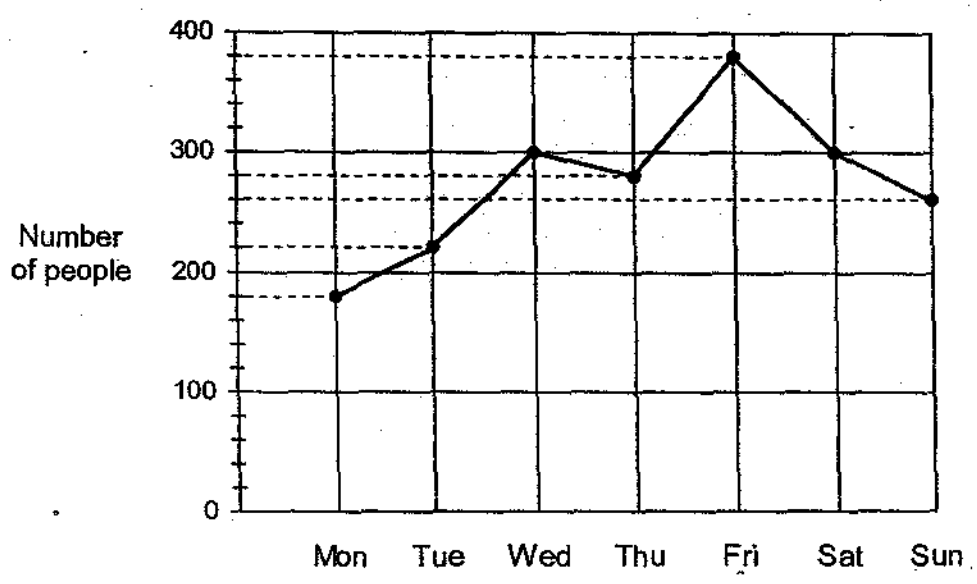
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6. Mrs Raju packs 2 kg of flour into packets of $\frac{1}{8}$ kg. How many packets does she get?

- (1) 250
- (2) 25
- (3) 16
- (4) 4

()

7. The graph below shows the number of people who used the swimming pool over a period of 7 days.



How many people used the swimming pool from Tuesday to Saturday?

- (1) 510
- (2) 520
- (3) 1390
- (4) 1480

()

8. Simplify $8 + 5p - 6 - p$.

(1) $2 + 4p$

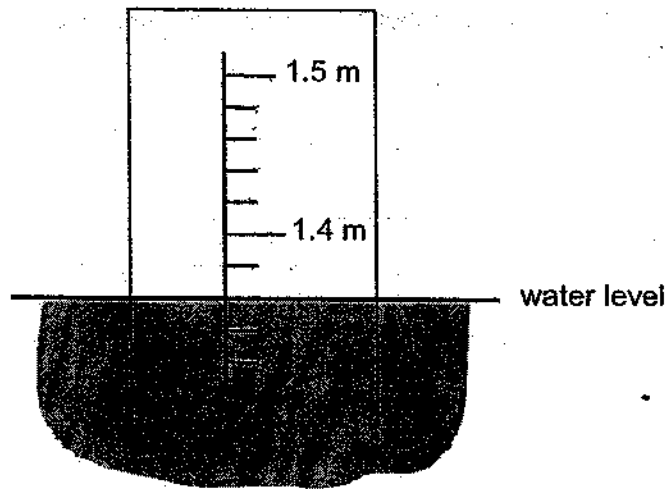
(2) $2 + 6p$

(3) $12p - 6$

(4) $14 + 4p$

()

9. The figure shows part of a post which is used to measure water level.



What is the height of the water level shown above?

(1) 1.2 m

(2) 1.36 m

(3) 1.38 m

(4) 1.42 m

()

10. Express $3\frac{1}{5}$ as a decimal.

(1) 3.1

(2) 3.15

(3) 3.2

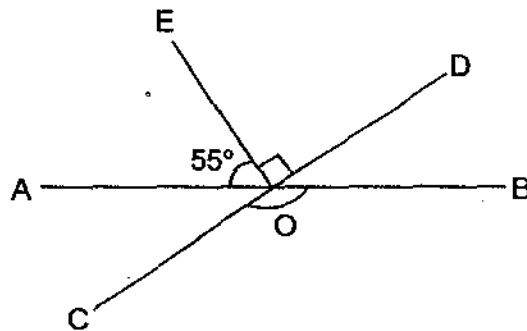
(4) 3.5

()

11. The number of cards that Cher, Kim and Sue have is in the ratio 4 : 6 : 9. Sue has 360 more cards than Cher. How many cards do the three children have altogether?
- (1) 1368
 (2) 1710
 (3) 2280
 (4) 3420

12. A string which is $\frac{3}{5}$ m long is cut into 5 pieces of equal length. What is the length of each piece in cm?
- (1) $8\frac{1}{3}$ cm
 (2) 12 cm
 (3) $33\frac{1}{3}$ cm
 (4) 300 cm

13. In the figure below, AOB and COD are straight lines.

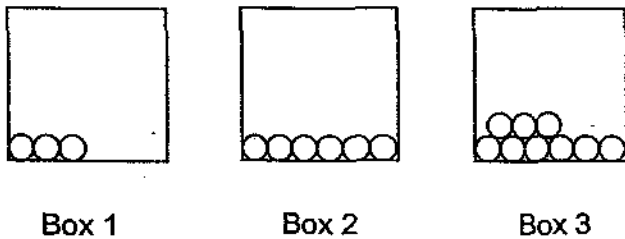


Find $\angle COB$.

- (1) 35°
 (2) 125°
 (3) 145°
 (4) 215°

14. There are 1500 pupils in a school. 60% of the pupils are boys. 40% of the boys and 20% of the girls walk to school. How many pupils walk to school?
- (1) 300
(2) 480
(3) 600
(4) 900

15. There are 21 boxes numbered 1 to 21. There are three marbles in Box 1, six marbles in Box 2, nine marbles in Box 3 and so on in this pattern.



What is the total number of marbles in all the 21 boxes?

- (1) 63
(2) 630
(3) 660
(4) 693

End of Booklet A

Pei Chun Public School
Continual Assessment 1– 2009
Mathematics
Primary 6

Paper 1 (Booklet B)
You are not allowed to use a calculator.

Name : _____ ()

Marks :

Class : Primary 6 _____

Date : 5 March 2009

Total Time for Booklets A and B: 50 min

Maths Teacher : _____

Parent's Signature : _____

Booklet A	20
Booklet B	20
Total (Paper 1)	40

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)

Do not write
in this space

16. List all the factors of 12.

Ans : _____

17. Find the value of $7 - 0.04 + 0.9$.

Ans : _____

SCORE

18. Find the value of 0.03×2000 .

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Ans : _____

19. Express $6\frac{3}{10}$ hours in minutes.

Ans : _____ min

20. The cost of repairing a basketball court is \$1995. Round off this amount to the nearest ten dollars.

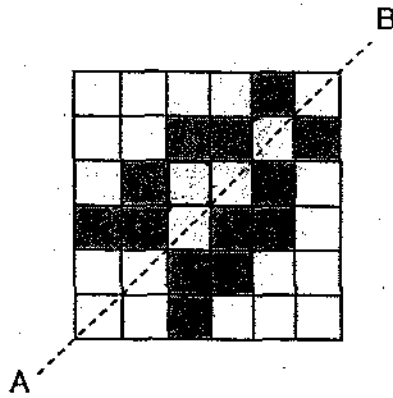
Ans : \$ _____

SCORE

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21. Shade a square to complete the figure which has the dotted line AB as the line of symmetry.

Do not write
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22. Arrange the following fractions from the smallest to the largest.

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

Ans : _____

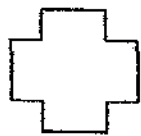
23. Eve bought an oven. She paid \$49 for the 7% GST. How much did the oven cost before GST?

Ans : \$ _____

SCORE

24. Which of the following shapes can be tessellated?

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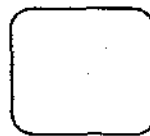
A



B



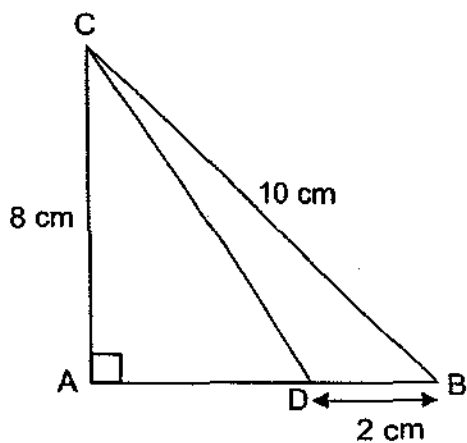
C



D

Ans : _____

25. In the figure below, ABC is a triangle and ADB is a straight line. Find the area of triangle BCD.



Ans : _____ cm²

SCORE

Questions 26 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. (10 marks)

Do not write
in this space

26. The table below shows the parking charges at a car park.

Parking Charges	
7 a.m. to 5 p.m.	\$1.00 per $\frac{1}{2}$ hour.
5 p.m. to 12 midnight	\$0.50 per $\frac{1}{2}$ hour
Overnight parking	\$2.00

Mr Teoh parked his car from 11.00 p.m. on Tuesday to 9.30 a.m. on Wednesday, the next day. How much parking fee did he pay?

Ans : \$ _____

27. Mr Taufik took a flight from Singapore to Hong Kong. He arrived in Hong Kong at 02 45. His flight to Hong Kong took $3\frac{1}{2}$ h. At what time did he leave Singapore? Give the answer in 24-hour time.

Ans : _____

SCORE

28. Siti had 5y doughnuts. She bought another 8 doughnuts. Then she gave them equally to 4 friends. If $y = 4$, how many doughnuts did each friend get?

Do not write
in this space

Ans : _____

29. In the space below, draw a triangle ABC in which AC is 6 cm and $\angle BAC$ is 110° . The line AB has been drawn for you.



30. A shopkeeper paid \$1500 for a refrigerator. He sold it at a 20% discount and still made \$300. What was the price of the refrigerator before the discount?

Ans : \$ _____

End of Booklet B

Set by : Mrs Jane Mak
Vetted by: P6 Maths Committee Teachers

SCORE

Pei Chun Public School
Continual Assessment 1 – 2009
Mathematics
Primary 6

Paper 2
You are allowed to use a calculator.

Name : _____ ()

Marks :

Class : Primary 6 _____

Date : 5 March 2009

Time : 1 h 40 min

Maths Teacher : _____

Parent's Signature : _____

Paper 1	/ 40
Paper 2	/ 40
Booklet K Qn 5, Q14 – Q18	/ 20
TOTAL	/ 100

Questions 1 to 4 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. (8 marks)

1. The total mass of 5 durians was 7 kg. When another durian was added, the average mass of the 6 durians was 1.45 kg. What was the mass of the durian that was added?

Do not write in this space

Ans : _____ kg

SCORE

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2. $\frac{3}{5}$ of the beads in box A and $\frac{1}{2}$ of the beads in box B are red. The rest of the beads are blue. Both boxes have the same number of red beads. Box B has 6 more blue beads than box A. How many beads are there in box B?

Ans : _____

3. Emily had \$34. She bought 9 notebooks and 2 pens. Each notebook costs \$y and 3 notebooks cost as much as a pen. How much money had she left? Give your answer in terms of y.

Ans : \$ _____

4. Fred and Paul shared a sum of money in the ratio 6 : 5. Both of them spent an equal amount of money. Fred had twice as much money left as Paul. If both of them spent \$569.20 altogether, what was the sum of money they had at first?

Ans : \$ _____

5. Refer to Booklet K.

SCORE

For questions 6 to 13, 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. (Total: 32 marks)

Do not write
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6. A box of stickers was shared between Junming and Shuwen. Junming received 65% of the stickers. Shuwen received 168 less stickers than Junming. How many stickers were there in the box?

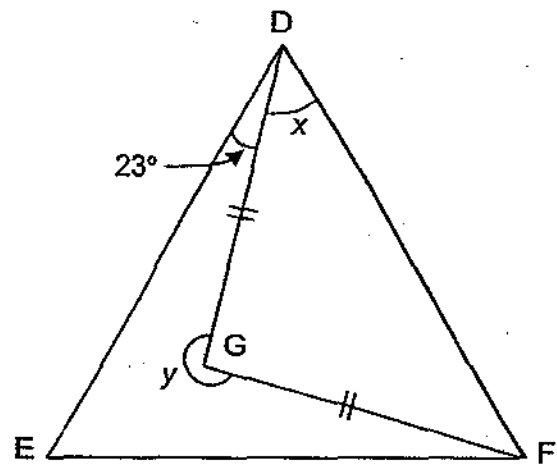
Ans : _____ [3]

SCORE

7. In the figure below, not drawn to scale, DEF is an equilateral triangle and DGF is an isosceles triangle. $DG = GF$ and $\angle EDG = 23^\circ$.

Do not write in this space

- Find (a) $\angle x$.
 (b) $\angle y$.



Ans : (a) _____ [2]

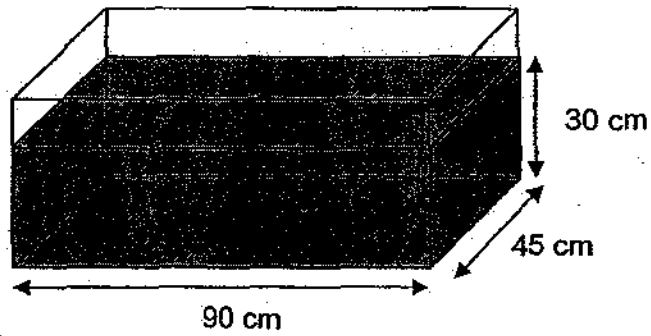
(b) _____ [2]

SCORE

8. A rectangular container is 90 cm long and 45 cm wide. It is filled with water to a height of 30 cm.

Do not write
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- (a) Find the volume of water in the container in cubic centimetres.
- (b) If an additional amount of 26.73 ℓ of water is needed to fill the container until it is $\frac{3}{4}$ full, what is the height of the container? (1 ℓ = 1000 cm³)



Ans : (a) _____ [1]

(b) _____ [3]

SCORE

9. Mrs Kwa has $\frac{5}{6}$ m of ribbon. She cuts it into lengths of $\frac{2}{7}$ m.

Do not write
in this space

- (a) What is the **greatest** number of such pieces that she can get?
- (b) How many metres of ribbon are left? Give your answer as a fraction in the simplest form.

Ans : (a) _____ [2]

(b) _____ [2]

SCORE

10. There was a total of 126 mangoes and apples in a shop at first. 11 mangoes and 7 apples were added. There are now 25% more apples than mangoes.

Do not write
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- (a) How many mangoes are there in the shop now?
- (b) What was the ratio of the number of mangoes to the number of apples at first?

Ans : (a) _____ [2]

(b) _____ [2]

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SCORE

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Ali and Bala had a total of 1134 marbles. After each of them had given away some marbles, the number of marbles Ali had was 4 times the number of marbles he had given away and the number of marbles Bala had was three times the number of marbles he had given away. They had a total of 897 marbles left. How many marbles did Bala have at first?

Do not write
in this space

Ans : _____ [4]

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SCORE

12. If a shopkeeper sells a computer at a discount of 19%, he will make \$329.90. If he sells it at a discount of 35%, he will lose \$241.30. How much did the shopkeeper pay for the computer?

Do not write
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Ans : _____ [4]

55

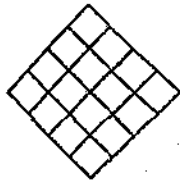
SCORE

13. Jenny used square tiles to form the patterns shown below.

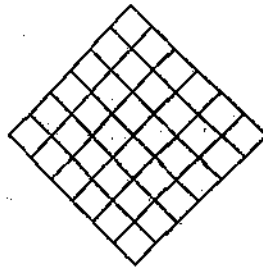
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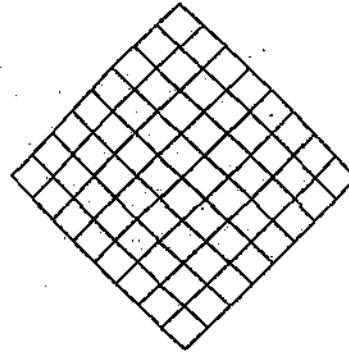
Pattern 1



Pattern 2



Pattern 3



Pattern 4

The table shows the number of square tiles used to form each pattern.

Pattern	Number of Tiles

- (a) Complete the table above for Pattern 5. [1]
- (b) How many tiles will she need to make Pattern 83?
- (c) A certain pattern has 73 984 tiles. What is the pattern number?

Ans: (b) _____ [2]

(c) _____ [2]

For Questions 14 to 18, refer to Booklet K.

End of this Booklet

Set by : Ms Jane Mak
Vetted by: P6 Maths Committee Teachers

SCORE

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ANSWER SHEET

EXAM PAPER 2009

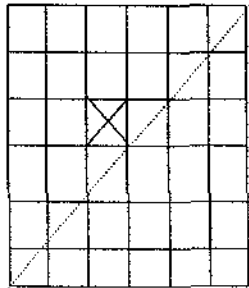
SCHOOL : PEI CHUN PRIMARY
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : CA1

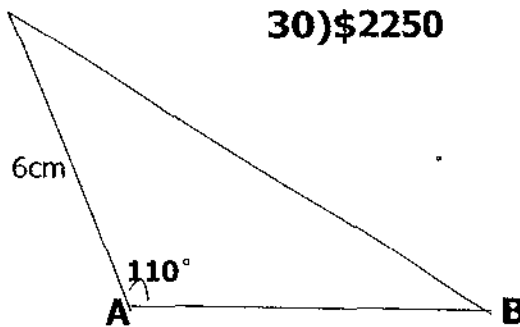
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
4	1	2	3	4	3	4	1	2	3	1	2	3	2	4

16) 1,2,3,4,6,12 17) 7.86 18) 60 19) 378min 20) \$2000

21)



22) $\frac{4}{11}, \frac{4}{7}, \frac{2}{3}$ 23) \$700 24) A
 25) 8cm² 26) \$8 27) 2315 28) 7 doughnuts
 29) C 30) \$2250



Paper 2

1) Mass of durian added $\rightarrow 1.45 \times 6 = 8.7 = 1.7\text{kg}$

2) $\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$

1 unit $\rightarrow 6$

B beads in B $\rightarrow 6 \times 6 = 36$

3) \$(34-15y)

4) 1 unit $\rightarrow 569.20 \div 8 = 71.15$

$$6+5=11$$

$$11 \text{ units} \rightarrow 71.15 \times 11 = \$782.65$$

5) No Ques

6) $100\% - 65\% = 35\%$

$$65\% - 35\% = 30\%$$

Stickers in box $\rightarrow 168/30 \times 100 = 560$ stickers.

7) a) $\angle x \rightarrow 60^\circ - 23^\circ = 37^\circ$

$$\text{b) } \angle DGF \rightarrow 180^\circ - 37^\circ - 37^\circ = 106^\circ$$

$$\angle y \rightarrow 360^\circ - 106^\circ = 254^\circ$$

8) a) Volume of water $\rightarrow 90 \times 45 \times 30 = 121500 \text{ cm}^3$

$$\text{b) } 26.73 \text{ L} = 26730 \text{ cm}^3$$

$$\frac{3}{4} \text{ full} \rightarrow 121500 + 26730 = 148230$$

$$\frac{3}{4} \text{ height} \rightarrow 148230 \div 90 \div 45 = 36.6$$

$$\frac{1}{4} \text{ height} \rightarrow 36.6 \div 3 = 12.2$$

$$\text{Height} \rightarrow 12.2 \times 4 = 48.8 \text{ cm}$$

9) a) 2 pieces

$$\text{b) } 11/42 \text{ m}$$

10) a) 64

$$\text{b) } 53:73$$

11) 204

12) \$2561.80

13) a) 100

$$\text{b) } 27556$$

$$\text{c) } 136$$