PRIMARY 5 END-OF-YEAR EXAMINATION 2012

Name : _____ ( ) Date: 29 October 2012

Class : Primary 5 ( ) Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____ Marks: _____ / 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET A)

20

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

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)

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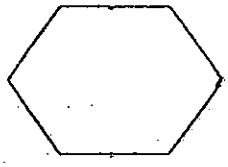
1. In 479 385, the digit 7 is in the _____ place.

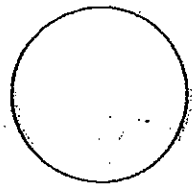
   (1) hundreds
   (2) thousands
   (3) ten thousands
   (4) hundred thousands

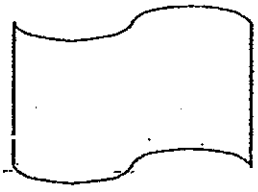
2. Which of the following is closest to 6.5?

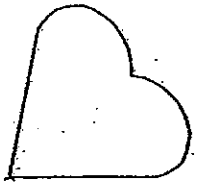
   (1) 6.409
   (2) 6.49
   (3) 6.502
   (4) 6.53

3. Which of the following shapes has only one line of symmetry?

   (1) 

   (2) 

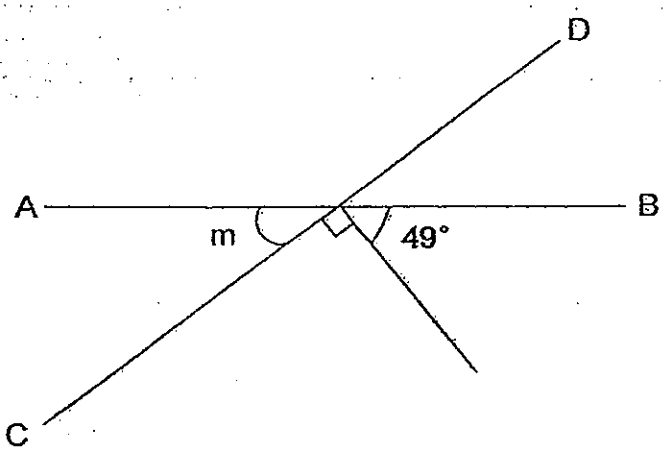
   (3) 

   (4) 

4. Three rods have an average length of 157 cm. If two of the rods are 154 cm and 148 cm, what is the length of the third rod ?

(1) 153 cm
(2) 169 cm
(3) 302 cm
(4) 471 cm

5. In the figure below, not drawn to scale, AB and CD are straight lines. Find $\angle m$.



(1) 41°
(2) 82°
(3) 98°
(4) 131°

105

6. A baker used $\frac{5}{8}$ kg of flour to make 15 pies. How much more flour would he need in order to bake another 5 pies?

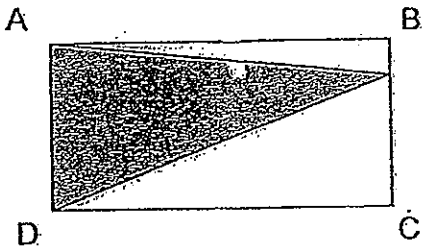
(1) $\frac{1}{24}$ kg

(2) $\frac{5}{24}$ kg

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

(4) $\frac{5}{6}$ kg

7. The length of rectangle ABCD is twice its width. If the perimeter of ABCD is 36 cm, what is the area of the shaded triangle?



(1) 9 cm^2

(2) 36 cm^2

(3) 72 cm^2

(4) 144 cm^2

8. Express $5\frac{12}{25}$ as a decimal.

(1) 5.480

(2) 5.250

(3) 5.048

(4) 5.012

9. Express 0.09 as a percentage.

(1) 0.009 %
(2) 0.09 %
(3) 0.9 %
(4) 9 %

10. Mrs Tan had 2 kg of potatoes. She used 700 g of the potatoes for dinner. What percentage of the potatoes was used?

(1) 7 %
(2) 35 %
(3) 65 %
(4) 70 %

11. 328 812 = 3 x 100 000 + 25 x 1 000 + _____ x 100 + 1 x 10 + 2 x 1
What is the missing number in the blank ?

(1) 8
(2) 30
(3) 3
(4) 38

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12. A fruit seller opened a crate containing 30 apples. $\frac{1}{5}$ of the apples are green. $\frac{1}{2}$ of the apples are red and the rest are spoilt. How many apples could be sold?

(1) 21
(2) 15
(3) 9
(4) 6

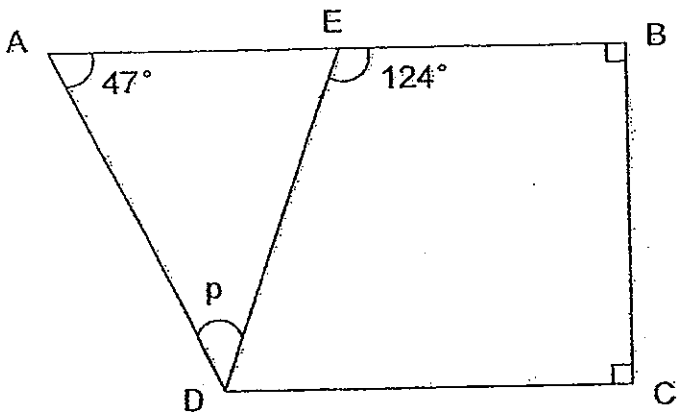
13. At the end of a year, Rashid has a total of $1260 in his fixed deposit account. If the yearly interest is 5%, what is the amount he had at the beginning of that year ?

(1) $1 155
(2) $1 197
(3) $1 200
(4) $1 323

14. Lisa and Helen each received some cookies from their mother. $\frac{1}{3}$ of Helen's cookies was equal to $\frac{2}{7}$ of Lisa's cookies. Find the ratio of Helen's cookies to Lisa's cookies.

(1) 1 : 2
(2) 3 : 7
(3) 6 : 7
(4) 7 : 6

15. In the figure below, not drawn to scale, AEB is a straight line. Find the value of $\angle p$.



(1) 56°

(2) 77°

(3) 103°

(4) 133°

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PRIMARY 5 END-OF-YEAR EXAMINATION 2012

Name : _____ ( ) Date: 29 October 2012

Class : Primary 5 ( ) Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET B)

20

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **not** allowed to use a calculator.

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)

---

16. Write 1 017 744 in words.

Ans: _____

_____

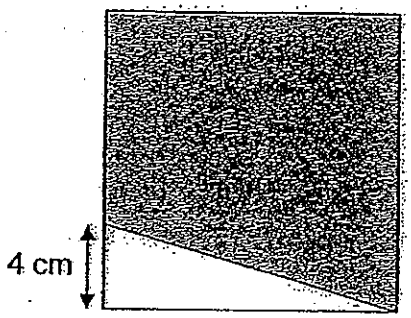
17. Write 41 tens, 5 tenths and 1 thousandths in numerals.

Ans: _____

18. John drank $\frac{5}{12}$ of a jug of orange juice. Jane drank another $\frac{1}{3}$ of it. What fraction of the jug of orange juice did they drink altogether? (Express your answer in the simplest form.)

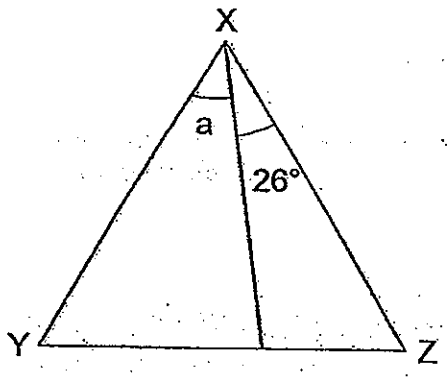
Ans: _____

19. Each side of the square, not drawn to scale, is 14 cm. Find the shaded area.



Ans: _____ cm^2

20. In the triangle below, not drawn to scale, XY = XZ = YZ. Find ∠a.



Ans: _____ °

21. If ☆ + ☆ + ☆ + ☆ = $\frac{6}{7}$,
what is the value of ☆ ?

Ans: _____

22. Find the average of the numbers below.

10 , 9 , 0 , 12 , 27

Ans: _____

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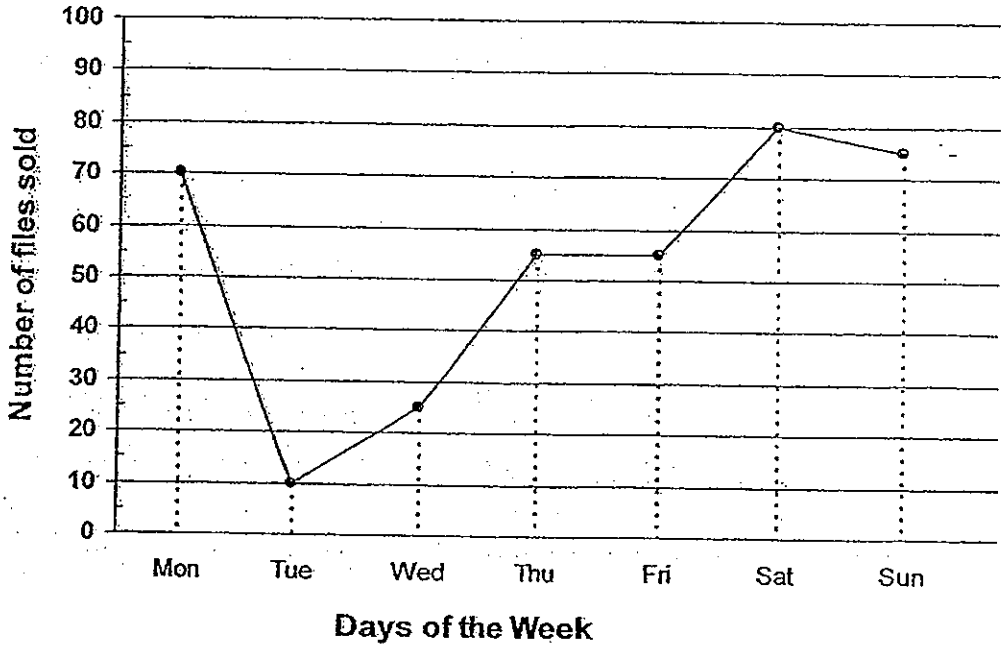
The line graph below shows the number of files sold by a bookstore in a week. Study the graph carefully and answer **questions 23 to 25.**



23. The greatest increase in the number of files sold occurred between _____ and _____.

Ans: _____ and _____

24. What is the average number of files sold from Monday to Friday ?

Ans: _____

25. What is the ratio of the number of files sold on Saturday and Sunday to the total number of files sold over the entire week?

Ans: _____

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)

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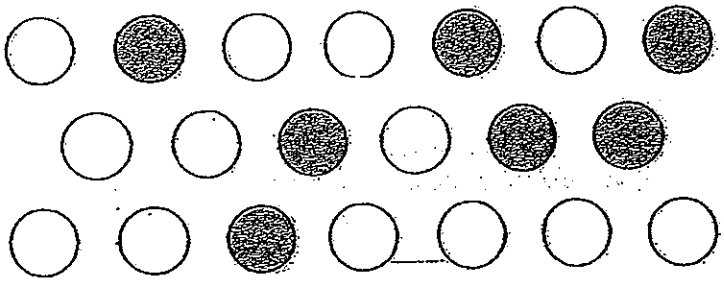
26. Mr Tan bought 5 boxes of pens. He re-packed the pens into packets of 6 pens. If he managed to pack 130 packets of pens, how many pens were there in each box at first ?

Ans: _____

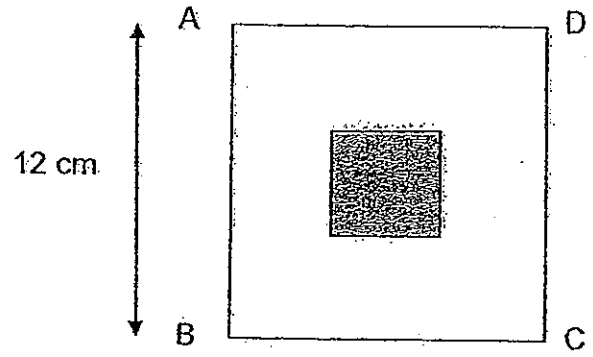
27. How many more circles must be shaded so that $\frac{3}{4}$ of the circles are shaded ?



Ans: _____

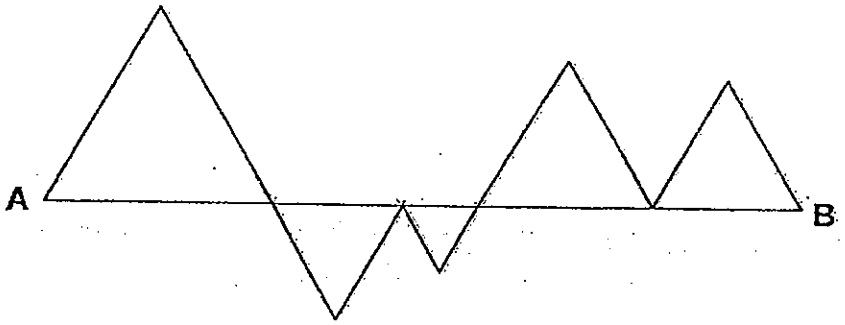
115

28. The following figure is not drawn to scale. The ratio of the perimeter of Square ABCD to the perimeter of the shaded square is 8 : 3. If AB is 12 cm, what is the perimeter of the shaded square ?



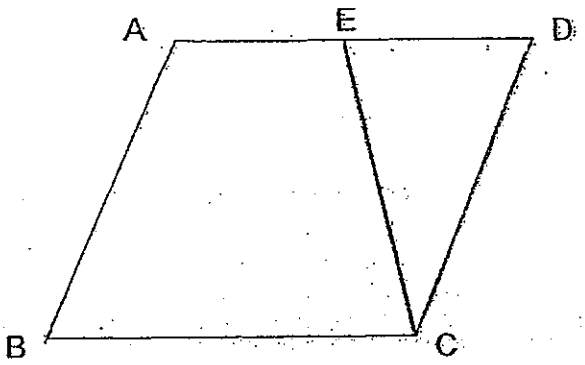
Ans: _____cm

29. The figure below, not drawn to scale, is made up of 5 equilateral triangles. It is made with a piece of wire that is 7.5 m long. Find the length of AB.



Ans: _____m

30. In the figure, not drawn to scale, ABCD is a parallelogram and CDE is an isosceles triangle. Find $\angle BAD$.



Ans: _____°

-End Of Paper-

PRIMARY 5 END-OF-YEAR EXAMINATION 2012

Name : _____ ( ) Date: 29 October 2012

Class : Primary 5 ( ) Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2

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INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

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)

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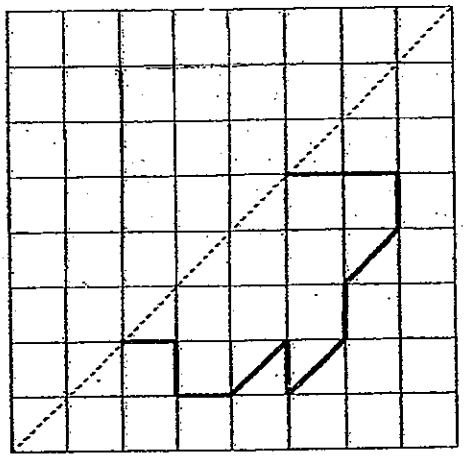
1. Using the dotted line as the line of symmetry, complete the symmetric shape.



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2. Steven used 133 cm of string to tie a present in the shape of a cube as shown. 23.4 cm of the string is used for the ribbon. What is the length of each side of the box?.

Ans: _____ cm

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3. Indra had enough money to buy either 4 rulers or 20 files. He bought 5 files and some rulers with all his money. How many rulers did he buy?

Ans: _____

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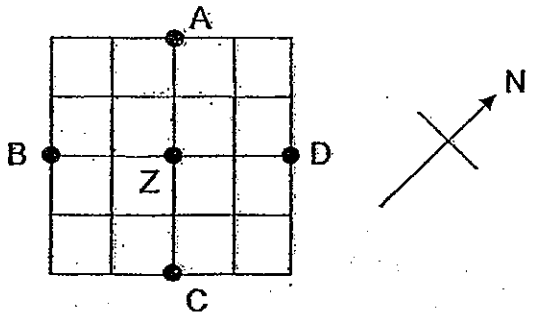
4. Siti is standing at Z facing east. If she makes a 225° anti-clockwise turn, where would she be facing ?



Ans: _____

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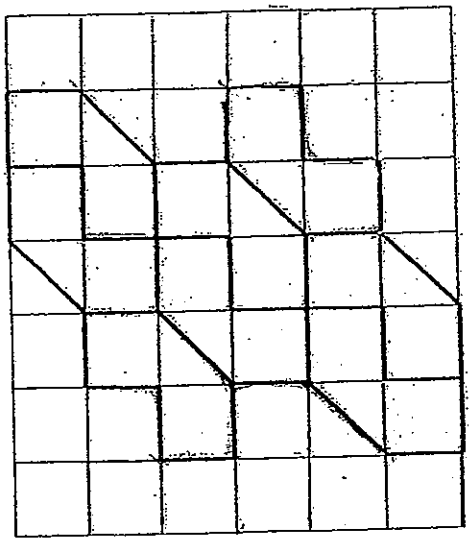
5. How many more of the unit shape can you add in the space provided? Write down the greatest possible number.



Ans: _____

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)

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6. At first, the ratio of the pupils in Class A to the pupils in Class B was 16 : 11. Then, 8 pupils left Class A to join Class B. The ratio of the pupils in Class A to the pupils in Class B became 4 : 5. How many pupils were in Class B at first?

Ans: _____ [3]

---

7. A local taxi company charges fares as shown in the table below.

First 1 km	$3.40
Every additional 200 m or part thereof	$0.30

Mary took a taxi from her home to the office. What was the maximum distance travelled if the fare paid was $21.70 ?

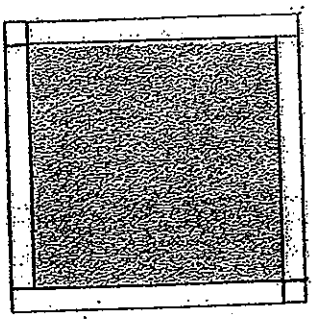
Ans: _____ [3]

---

8. Alan is 8 years old and his brother is three years younger than him. In 7 years' time, his mother will be 4 times as old as his brother. How old is their mother now ?

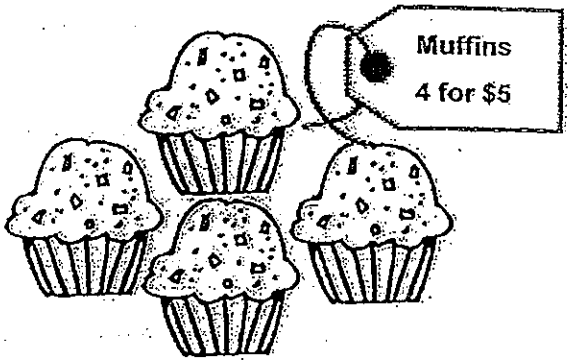
Ans: _____ [3]

9. The figure, not drawn to scale, shows a square made up of 4 rectangular pieces of wood 1.2 m long and 10 cm wide. What is the shaded area ?
Give your answer in m^2 correct to 1 decimal place.



Ans: _____ [3]

10. Lily bought 8 muffins and 7 cheese buns for her family. If the average cost of all the items is 90¢, how much do the cheese buns cost ?



Ans: _____ [3]

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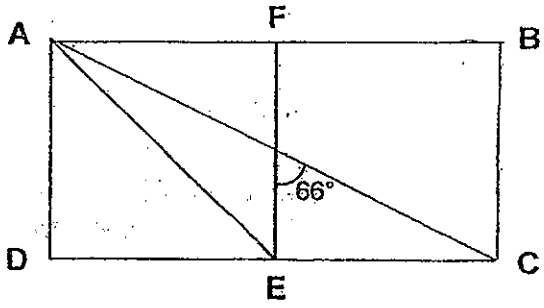
11. In the figure below, not drawn to scale, ABCD is a rectangle and AEC is a triangle. AD = ED and EF is perpendicular to CD.

(a) Find ∠AEC.

(b) Find ∠EAC.

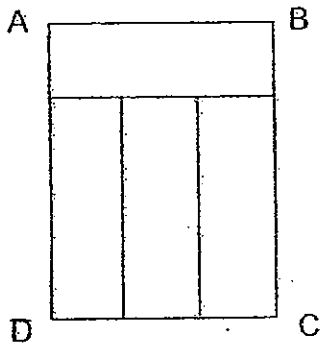


Ans: a) _____ [1]

b) _____ [2]

---

12. The diagram, not drawn to scale, is made up of 4 identical rectangles. The perimeter of Rectangle ABCD is 196 cm. What is the area of Rectangle ABCD ?



Ans: _____ [4]

13. Tom was given $91.50 to buy exactly 4 boxes of chocolates and 5 boxes of sweets. If he bought 6 boxes of chocolates and 6 boxes of sweets, he would be short of $33.30. Find the cost of a box of sweets.

Ans: _____ [4]

14. $\frac{1}{4}$ of the fruits at a fruit stall are apples, while the rest are pears and oranges.

The ratio of the number of pears to the number of oranges is 7 : 2.

a) Find the ratio of the number of apples to the number of pears to the number of oranges.

b) If there were 100 more pears than oranges, find the number of fruits at the stall.

Ans: a) _____ [2]

b) _____ [2]

15. When Jenny and Chris went to a sale at Harrold Department Store, Chris had 3 times as much money as Jenny. After Jenny spent $9 and Chris spent $55, Jenny had 5 times as much money as Chris. How much money did Jenny have at first?

Ans: _____ [5]

16. Shufen bought some strawberries from the supermarket. After using $\frac{4}{7}$ of it to make a strawberry cake, she bought another 36 strawberries and baked another cake exactly like the first. $\frac{3}{7}$ of the remaining strawberries were used to make jam. 16 strawberries were left.

(a) How many strawberries were used to make jam ?

(b) How many strawberries did she have at first ?

Ans: (a)_____ [2]

Ans: (b)_____ [3]

17. Mr Ong had 280 more files than notebooks in his bookstore. After selling $\frac{3}{4}$ of the files and $\frac{2}{5}$ of the notebooks, 172 files and notebooks were left. How many files did he sell?

Ans: _____ [5]

18. Henry bought 220 stickers. 40% of them were glow-in-the-dark stickers and the rest were normal stickers. He gave away some glow-in-the-dark stickers to his brother and the percentage of glow-in-the-dark stickers became 20%.

(a) How many stickers did Henry have left?

(b) How many glow-in-the-dark stickers did he give away?

Ans: (a)_____[3]

(b)_____[2]

-End Of Paper -

Answer Ke

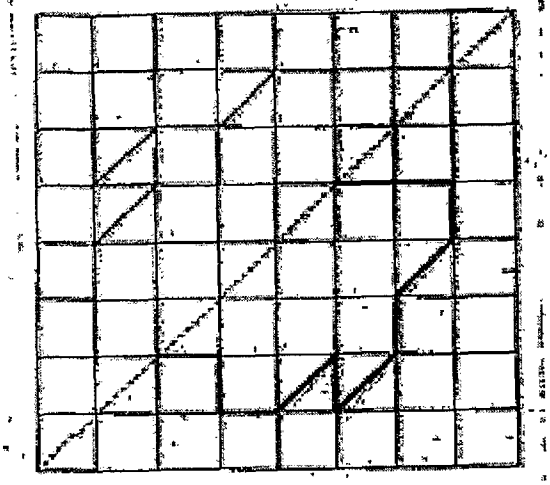
EXAM PAPER 2012

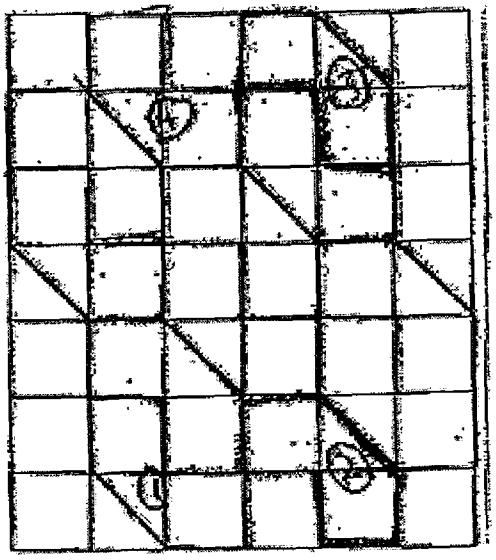
SCHOOL : TAO NAN
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

Q1 (Paper 2)





Q5 (Paper 2)
(working ans)

SA2 – Answer Key

Paper 1 – Booklet B

16. One million, seventeen thousand, seven hundred and forty-four
17. 410.501
18. $\frac{3}{4}$
19. 168 cm^2
20. 34°
21. $\frac{3}{14}$
22. 11.6 or $11\frac{3}{5}$
23. Wednesday and Thursday
24. 43
25. 31 : 74 or 155 : 370
26. 130 x 6 = 780 , 780 ÷ 5 = 156
27. $\frac{3}{4}$ x 20 = 15 , 15 – 7 = 8
28. 12 x 4 = 48
    8 units → 48
    1 unit → 48 ÷ 8 = 6
    3 units → 6 x 3 = 18
29. 7.5 ÷ 3 = 2.5
30. 180° - 48° = 132° , 132° ÷ 2 = 66°
    180° - 66° = 114°

Paper 2

2. 133 cm – 23.4 cm = 109.6 cm , 109.6 cm ÷ 8 = 13.7 cm
3. Ruler : Files
    4 : 20
    1 : 5
    4 – 1 = 3
4. B
5. 4
6. Before
    Class A : Class B : Total
    16 : 11 : 27

    After
    Class A : Class B : Total
    4 : 5 : 9
    12 : 15 : 27

    16 units – 12 units = 4 units
    4 units → 8
    1 unit → 8 ÷ 4 = 2 , 11 units → 2 x 11 = 22

7. $21.70 - $3.40 = $18.30
    $18.30 ÷ $0.30 = 61
    61 x 200 m = 12 200 m , 12 200 m + 1 000 m = 13 200 m or 13.2 km

8. 8 – 3 = 5
    7 + 5 = 12
    12 x 4 = 48
    48 – 7 = 41

9. 10 cm = 0.1 m , 1.2 m - 0.1 m = 1.1 m
    1.1 m x 1.1 m = 1.21 m^2 ≈ 1.2 m^2

10. 8 + 7 = 15

$0.90 x 15 = $13.50

$5 x 2 = $10 , $13.50 - $10 = $3.50

11. a) ∠AEC = 180° – 45° = 135°

∠ACE = 90° – 66° = 24°

b) ∠EAC = 180° – 24° – 135° = 21°

12. 196 cm ÷ 14 = 14 cm

3 units → 14 cm x 3 = 42 cm

4 units → 14 cm x 4 = 56 cm } 42cm x 56cm = 2 352cm²

13. $91.50 + $33.30 = $124.80

6 boxes of chocolates + 6 boxes of sweets → $124.80

1 box of chocolates + 1 box of sweets → $124.80 ÷ 6 = $20.80

4 boxes of chocolates + 4 boxes of sweets → $20.80 x 4 = $83.20

1 box of sweets → $91.50 – $83.20 = $8.30

14. (a) Apples : Pears and Oranges Pears : Oranges : Pears and Oranges

1 : 3 7 : 2 : 9

3 : 9

Apples : Pears : Oranges

3 : 7 : 2

(b) 7 units – 2 units = 5 units

1 unit → 100 ÷ 5 = 20

3 units + 7 units + 2 units = 12 units

12 units → 20 x 12 = 240

18. a) 100% - 40% = 60%

60% x 220 = 132

After giving away some glow-in-the-dark stickers,

80% → 132

1% → 132 ÷ 80 = 1.65

100% → 1.65 x 100 = 165

b) 220 – 132 = 88

165 – 132 = 33

88 – 33 = 55

15.

	Chris	Jenny
At first	3	1
Spent	$55	$9
Left	1	5

← To find this

3 − $55 → 1
1 − $9 → 5
15 − $275 → 5
1 − $9 → 5
14 (+$275) 15 − $275 1 − $9 (+$275)

14 → $275 − $9
= $266

1 → $266 ÷ 14
= $19

---

16. a) $1 - \frac{3}{7} = \frac{4}{7}$

16 ÷ 4 = 4 ($\frac{1}{7}$ of remaining strawberries)

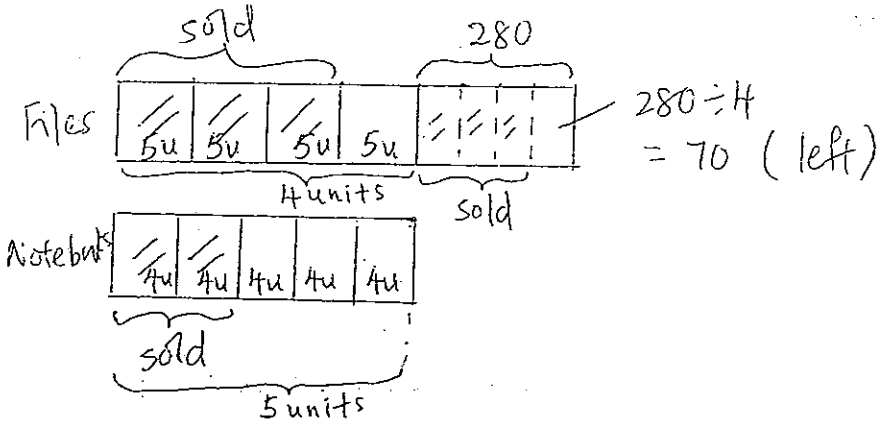
4 × 3 = 12 ($\frac{3}{7}$ of remaining strawberries)

4 × 7 = 28 (Remaining strawberries for jam & what was left)

36 − 28 = 8 (1 unit for cake)

8 × 7 = 56 (strawberries at first)

Q17.



$280 \div 4 = 70$ (left)

Comman Multiple : $4 \times 5 = 20$ (have to divide files into 20 units ($20 \div 4 = 5$) & Notebooks into 20 units. ($20 \div 5 = 4$)

Unsold : files & notebooks $5u + 4u + 4u + 4u = 17u$

Unsold : $172 - 70 = 102$

$102 \div 17 = 6$

Files sold : $3 \times 5u = 15u$

$15 \times 6 = 90$

$280 - 70 = 210$

$210 + 90 = 300$

End