



**NAN HUA PRIMARY SCHOOL**  
**SEMESTRAL ASSESSMENT 2 – 2012**  
**PRIMARY THREE**  
**MATHEMATICS**

**INSTRUCTION TO CANDIDATES**

1. Write your name and index number in the space provided.
2. Do not turn over the 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 for Questions 1 - 20.

**Marks Obtained**

Section	Maximum Marks	Actual Marks
A	40	
B	40	
C	20	
Total	100	

Name : \_\_\_\_\_ (      )

Class : Pr 3 \_\_\_\_\_

Date : 24 Oct 2012

Duration: 1 h 45 min

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

**Section A (40 marks)**

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 oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

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1. What is the product of 9 and 9?

- (1) 1
- (2) 0
- (3) 18
- (4) 81

( )

2. What is the quotient of  $378 \div 7$ ?

- (1) 54
- (2) 371
- (3) 378
- (4) 2646

( )

3. Express 2 m 30 cm in centimetres.

- (1) 2 03 cm
- (2) 2 30 cm
- (3) 2 030 cm
- (4) 2 300 cm

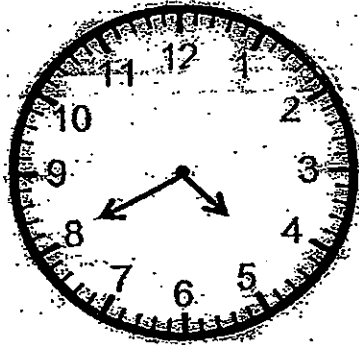
( )

4. The mass of a Primary 3 girl is most likely to be \_\_\_\_\_.

- (1) 30 g
- (2) 300 g
- (3) 3 kg
- (4) 30 kg

( )

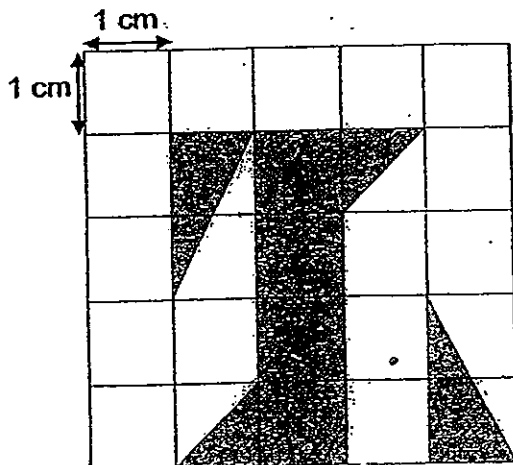
5. What time does the clock show?



- (1) 20 minutes to 4 O'clock
- (2) 20 minutes to 5 O'clock
- (3) 40 minutes to 5 O'clock
- (4) 40 minutes past 5 O'clock

( )

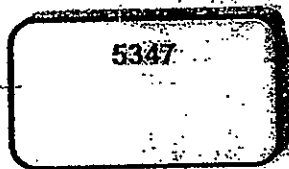
6. What is the area of the shaded region below?



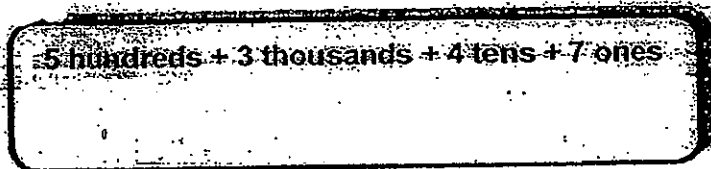
- (1)  $7 \text{ cm}^2$
- (2)  $8 \text{ cm}^2$
- (3)  $9 \text{ cm}^2$
- (4)  $10 \text{ cm}^2$

( )

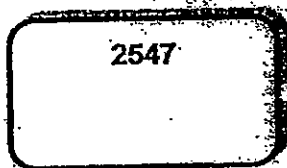
7. Which pair of cards has the same value?



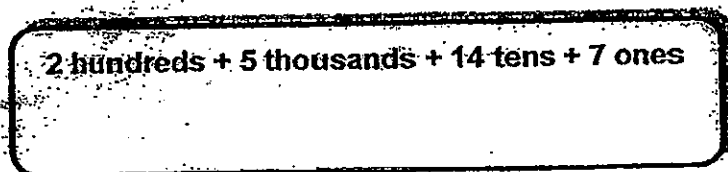
Card A



Card B



Card C



Card D

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

( )

8. A number is divided by 8. The quotient is 7 and the remainder is 6. What is the number?

- (1) 21
- (2) 50
- (3) 55
- (4) 62

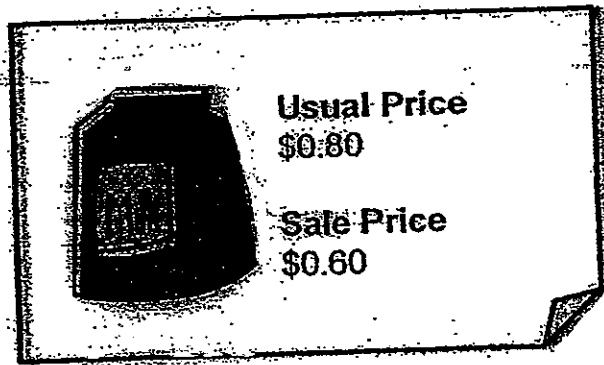
( )

9. Peter has 256 stamps. Peter collects 8 times as many stamps as Ali. How many stamps does Peter have more than Ali?

- (1) 32
- (2) 224
- (3) 248
- (4) 288

( )

10. Stall A is having a drink sale. A student has \$2. How much change did he have left after buying 2 packets of milk?



- (1) \$ 0.40  
(2) \$ 0.80  
(3) \$ 1.20  
(4) \$ 1.40

( )

11. What is  $\frac{3}{4} - \frac{7}{12}$ ? Express your answer in the simplest form.

- (1)  $\frac{1}{6}$   
(2)  $\frac{4}{8}$   
(3)  $\frac{2}{12}$   
(4)  $\frac{4}{12}$

( )



12. Which of the following is less than  $\frac{1}{2}$ ?

(1)  $\frac{2}{3}$

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

(3)  $\frac{4}{7}$

(4)  $\frac{5}{9}$

( )

13. 355 min is the same as \_\_\_\_\_.

(1) 3 h 55 min

(2) 5 h 55 min

(3) 6 h 5 min

(4) 35 h 5 min

( )

14. John took 3 h 5 min to finish his painting. His sister, Mary, took 2 h 35 min to paint a painting. How much longer does John take than Mary?

(1) 30 min

(2) 70 min

(3) 1 h 30 min

(4) 5 h 40 min

( )

15. The sum of 2 numbers is 5234. The difference between the 2 numbers is 66. What is the bigger number?

(1) 2 584

(2) 2 650

(3) 5 168

(4) 5 300

( )

16. There are 25 students in the class. 15 of them like only blue colour and the rest like only green colour. How many more students like blue colour?

(1) 5  
(2) 10  
(3) 15  
(4) 40

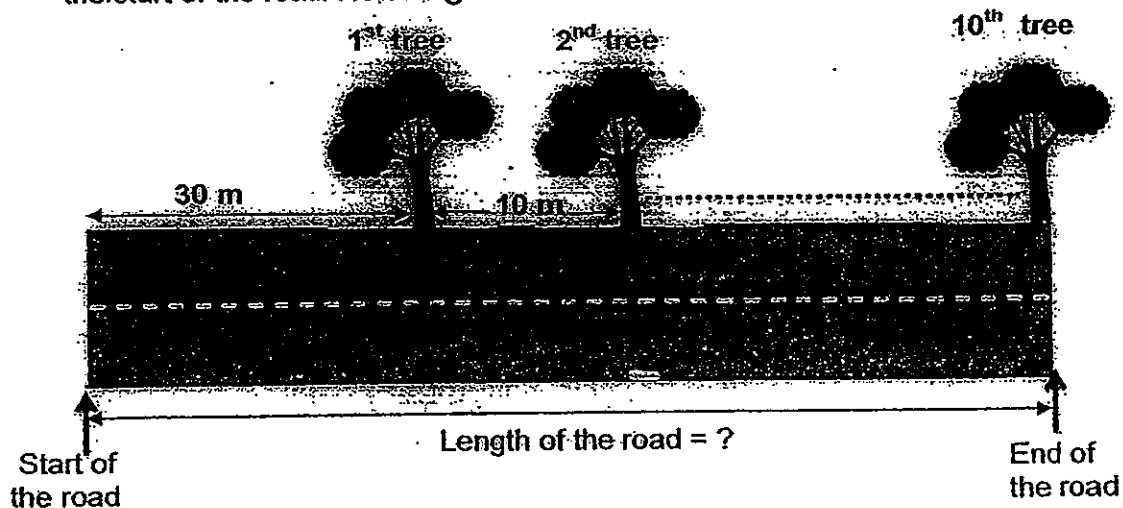
( )

17. 3 pairs of shorts cost as much as 4 t-shirts. The price of 1 t-shirt is \$ 6. How much more does a pair of shorts cost than a t-shirt?

(1) \$ 6  
(2) \$ 2  
(3) \$ 18  
(4) \$ 24

( )

18. There are 10 trees on a straight road. The trees are planted at equal distance. The distance between every 2 trees is 10 m. No tree is planted at the start of the road. How long is the road?

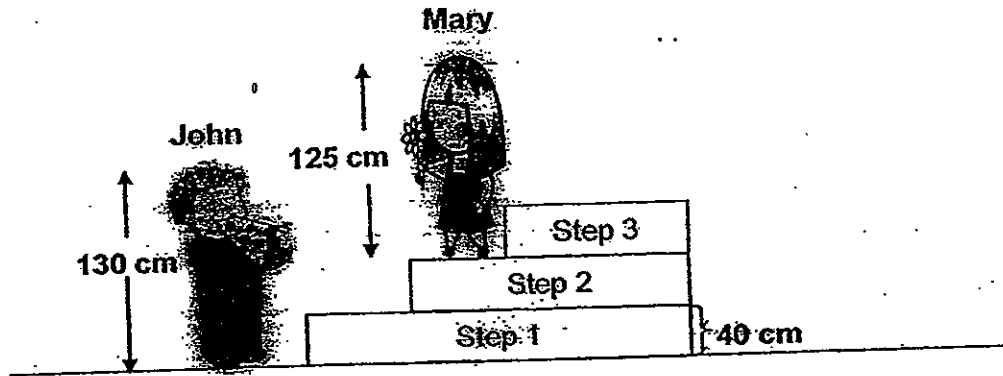


(1) 90 m  
(2) 100 m  
(3) 120 m  
(4) 130 m

( )



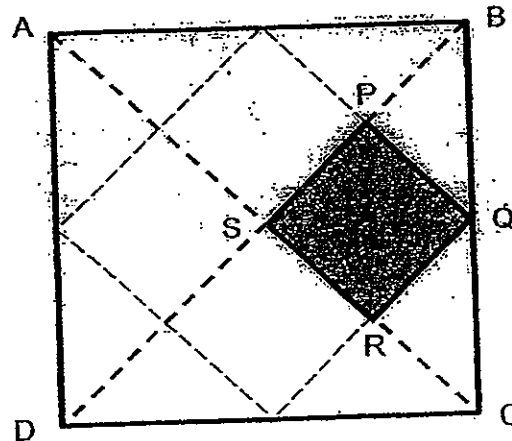
19. John's height is 130 cm. Mary's height is 125 cm. Each step is 40 cm in height. How much taller is Mary than John when Mary is standing on step 2?



- (1) 45 cm  
(2) 50 cm  
(3) 75 cm  
(4) 80 cm

( )

20. The figure below is made up of 2 squares, ABCD and PQRS. What fraction of the figure is shaded? Express your answer in the simplest form.



- (1)  $\frac{1}{7}$   
(2)  $\frac{1}{8}$   
(3)  $\frac{2}{7}$   
(4)  $\frac{2}{16}$

( )

**Section B (40 marks)**

Questions 21 to 40 carry 2 marks each. Show your workings 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.

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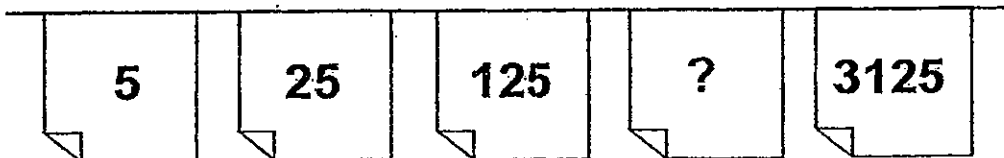
21. Write 5 943 in words.

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

22. Form the smallest 4-digit number between 2000 and 3000 with the digits 8, 0, 2, 5.

Ans:

23. Study the number pattern carefully. Then fill in the missing number.



Ans:

24. Mary has 28 hair clips. Jane has 7 times as many hair clips as her. How many hair clips does Jane have?

Ans:

25. 54 sweets are shared equally among 9 students. How many sweets did each student receive?

Ans:

26. Use the data in the calendar to help you answer the question.

<u>September 2012</u>						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

How many days are between 3<sup>rd</sup> September 2012 and 25<sup>th</sup> September 2012?

Ans:

27.

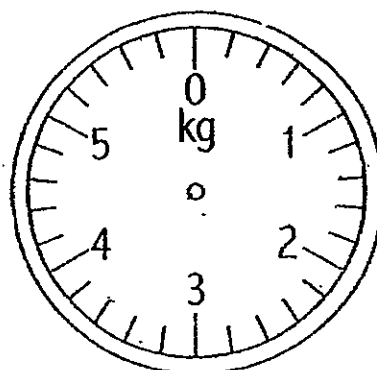


Find the total amount of money shown above.

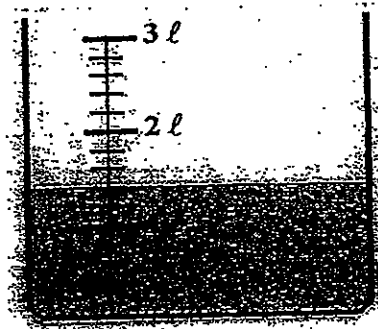
Ans:

\$

28. Draw one arrow pointing at 3 kg 600 g on the scale.



29. How much more water is needed to fill the container to 3 l?  
Give your answer in litres and millilitres.



Ans:  ml

30. A jug has 2 l 70 ml of lemonade. Sue pours the lemonade into each cup such that the cup is fully filled to the top. The capacity of each cup is 90 ml. How much lemonade is left in the jug?



2 l 70 ml  
at first

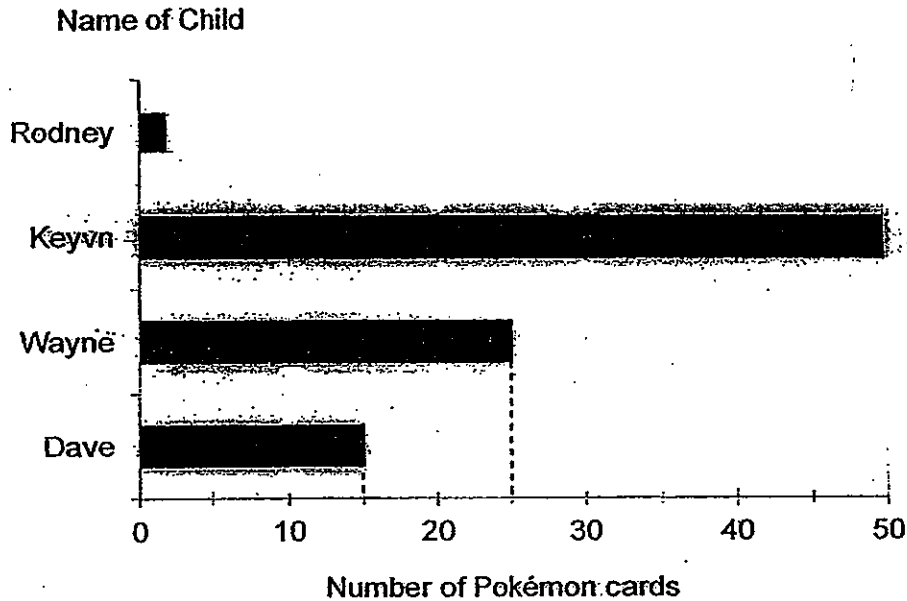


90 ml in each cup

Ans:  ml

Use the graph below to answer questions 31 and 32.

This graph shows the number of Pokémon cards 4 children have. However, the graph is not completed properly. The correct number of Pokémon cards which Rodney has is not shown accurately in the graph below.

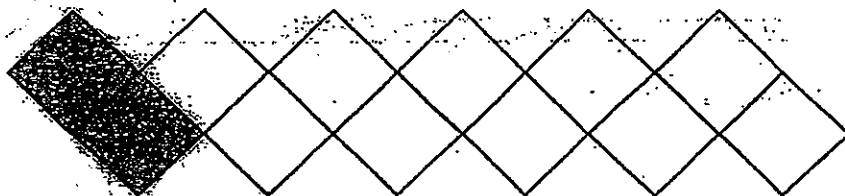


31. Among the 3 boys, Kevyn, Wayne and Dave, who has the least number of cards?

Ans:

32. The total number of Pokémon cards which Kevyn, Wayne and Dave have is thrice the number of Pokémon cards which Rodney has. Complete the bar graph above to show the number of cards Rodney has.

Complete questions 33 and 34 using the diagram below. The diagram is made up of 12 identical squares.



33. What fraction of the diagram above is shaded? Express your answer in your simplest term. *Simplest term.*

Ans:

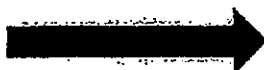
34. How many more squares must be shaded such that  $\frac{3}{4}$  of the figure is shaded?

Ans:

35. Arrange the following in order beginning with the smallest to the largest.

$$\frac{2}{5}, \frac{1}{7}, \frac{4}{9}$$

Smallest



Largest

Ans:

36. A plane leaves Singapore for Hong Kong at 6. 50 a.m. It reaches Hong Kong at 10.40 a.m. How long did the airplane take to fly from Singapore to Hong Kong? Express your answer in hours and minutes.



**Singapore**

Departure time  
6. 50 a.m.

? h ? min  
→



**Hong Kong**

Arrival time  
10. 40 a.m.

Ans:

h min

37. Ali took the airplane which travel from Singapore to Australia. The airplane took 5 h 30 min to reach Australia. The airplane reached Australia at 3.10 p.m. What time did the airplane leave Singapore?



**Singapore**

Departure time  
? a.m.

5 h 30 min  
→



**Australia**

Arrival time  
~~3. 20 p.m.~~  
3. 10 p.m.

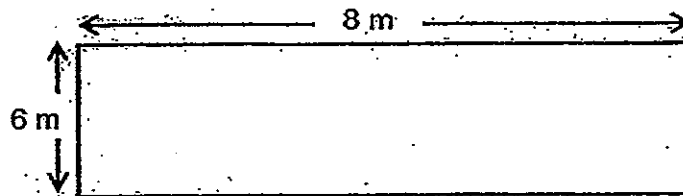
Ans

a.m.



Use the information given below to solve questions 38 and 39.

The length and breadth of a rectangular living room is 8 m and 6 m respectively.



38. What is the area of the living room?

Ans:

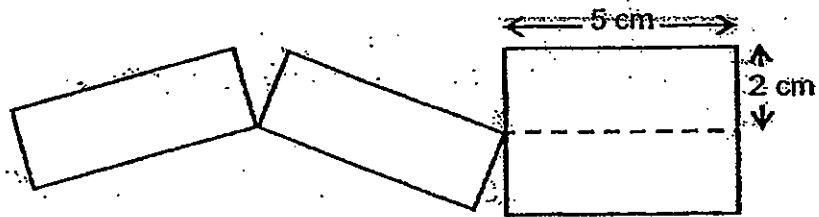
	$\text{m}^2$
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39. What is the perimeter of the living room?

Ans:

	m
--	---

40. The figure below is made up of 4 identical rectangles. What is the perimeter of the figure below?



Ans:

	cm
--	----

**Section C (20 marks)**

Question 41 to 45 carry 4 marks each. Show the workings clearly in the space provided below each question and write your answers in the space provided.

41. Tom, Harry and Ron collect erasers. Ron and Harry have 40 erasers each. The total number of erasers both of them have is the same as the number of erasers Tom has. How many erasers do they have altogether?
42. There are 2 bags of rice, Bag A and Bag B. There are 330 g of rice in Bag A and the amount of rice in Bag B is 3 times the amount in Bag A. 40 g of rice is transferred from Bag B to Bag A. What is the amount of rice in Bag B after the transfer?

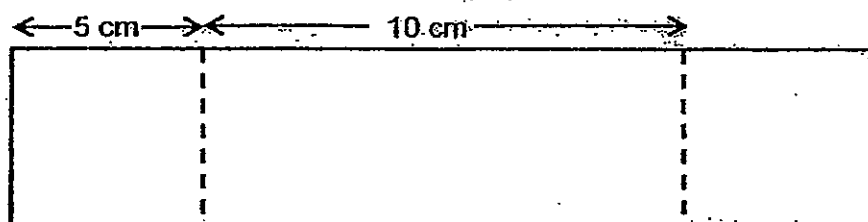
43. Peter has 7 bags of erasers. Each bag contains 9 erasers.

He repacked all the erasers into identical boxes of exactly 5 erasers in each box. There are some erasers left in the end.

a) How many boxes did Peter use?

b) How many erasers are left over in the end?

- 44 The figure below is made up of 2 identical squares and a rectangle. The side of the square is 5 cm each. The length of the rectangle is 10 cm and the breadth of the rectangle is 5 cm. What is the area of the figure?



45. There is a total of 15 tricycles and cars in a shop. Each tricycle has 3 wheels and each car has 4 wheels. There are 53 wheels altogether.

- (a) How many tricycles are there?
- (b) How many cars are there?

# Answer Ke

## EXAM PAPER 2012

SCHOOL : NAN HUA

SUBJECT : PRIMARY 3 MATHEMATICS

TERM : SA2

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

Q18	Q19	Q20
3	3	2

21) Five thousand, nine hundred and forty-three      22) 2056      23) 625

24) 196 hair clips      25) 6 sweets      26) 21 days      27) \$24.45

28)       29) 1 L 600ml      30) 1800ml      31) Dave

32) Rodney draw to 30      33)  $\frac{1}{6}$       34) 7

35)  $\frac{1}{7}$ ,  $\frac{2}{5}$ ,  $\frac{4}{9}$       36) 3h 50min      37) 9.40a.m.

38) 48m2      39) 28m      40) 46cm

41)  $40 \times 2 = 80$

$80 + 40 + 40 = 160$

They have erasers altogether.

45) a) 7

b) 8

42)  $330g \times 3 = 990g$

$990g - 40g = 950g$

43) a)  $7 \times 9 = 63$

$63 \div 5 = 12 \text{ R}3$

Peter used 12 boxes.

b) 3 erasers are left over

44)  $10cm + 5cm + 5cm = 20cm$

$20cm \times 5cm = 100cm^2$

