



NAN HUA PRIMARY SCHOOL  
CONTINUAL ASSESSMENT 2 – 2013  
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions ( 20 marks )

Section B: 15 Short Answer Questions ( 20 marks )

Total Time for Paper 1: 50 minutes

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 1-15.
6. You are not allowed to use calculator for Paper 1.

Marks Obtained

Paper 1	Booklet A		/ 40
	Booklet B		
Paper 2			/ 60
Total			/ 100

Name : \_\_\_\_\_ ( )

Class : 5 \_\_\_\_\_

Date : 29 August 2013

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

**Section A (20 marks)**

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

---

1. What is the value of  $27 + 9 + 3 - 5 \times 2$  ?
    - (1) 14
    - (2) 2
    - (3) 20
    - (4) 50
  
  2. There are 56 pupils in the International Chess Club. 18 of these pupils are girls. What is the ratio of the number of boys to the number of girls?
    - (1) 9 : 28
    - (2) 19 : 28
    - (3) 9 : 19
    - (4) 19 : 9
  
  3. What is  $1\frac{3}{7}$  as a decimal? Express your answer correct to 2 decimal places.
    - (1) 1.37
    - (2) 1.42
    - (3) 1.43
    - (4) 1.73
-

4. If  $24 : 18 = \odot : 24$ , what is the value of  $\odot$ ?

- (1) 18
- (2) 30
- (3) 32
- (4) 36

5. \_\_\_\_\_ is the same as  $\frac{7}{11} \times \frac{1}{3}$ .

- (1)  $\frac{7}{11} + \frac{1}{3}$
- (2)  $\frac{7}{11} + 3$
- (3)  $\frac{11}{7} + \frac{1}{3}$
- (4)  $\frac{11}{7} + 3$

6. There are 2 red markers, 4 blue markers and 10 black markers in a box. What percentage of the markers in the box is blue?

- (1) 40%
- (2) 25%
- (3) 16%
- (4) 4%

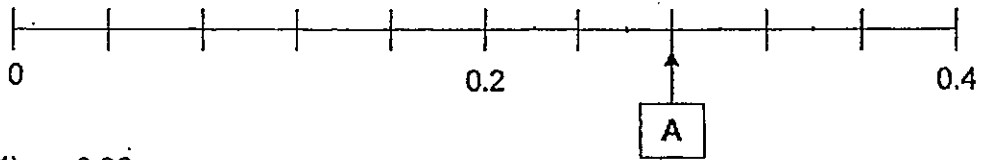
7.  $0.8$   
8 tenths is \_\_\_\_\_ hundredths more than 0.5.

- (1) 300
- (2) 30
- (3) 3
- (4) 0.3

8. The ratio of the number of goats to the number of ducks in a farm is 3 : 2. There are twice as many goats as cows in the farm. What is the ratio of the number of ducks to the total number of animals in the farm?
- (1) 2 : 11  
(2) 2 : 13  
(3) 4 : 9  
(4) 4 : 13
9. Andy has  $\frac{3}{8}$  kg of sand. He pours the sand equally into 6 jars. How much sand is there in each jar?
- (1)  $\frac{1}{16}$  kg  
(2)  $\frac{1}{4}$  kg  
(3)  $\frac{4}{9}$  kg  
(4)  $2\frac{1}{4}$  kg
10. Round off 579 867 to the nearest thousand.
- (1) 580 000  
(2) 579 900  
(3) 579 000  
(4) 578 000

11. Bala, Crystal and Danny shared a sum of \$160. Bala and Crystal received a total of 60% of the money, and Danny received the rest of the money. How much money did Danny receive?
- (1) \$100
  - (2) \$96
  - (3) \$82
  - (4) \$64
12. The ratio of the length of a rectangle to its breadth is 5 : 2. If the length of the rectangle is 10 cm, what is its perimeter?
- (1) 14 cm
  - (2) 28 cm
  - (3) 40 cm
  - (4) 70 cm
13. Elaine ate  $\frac{1}{10}$  of a cake and gave  $\frac{2}{3}$  of the remainder to her neighbour. What percentage of the cake was left?
- (1)  $23\frac{1}{3}\%$
  - (2) 30 %
  - (3)  $33\frac{1}{3}\%$
  - (4) 60 %
-

14. In the number line below, find the value of A.



- (1) 0.22  
(2) 0.24  
(3) 0.28  
(4) 0.30
15. Felix and Gary shared 144 stickers in the ratio 5 : 4. How many stickers does Felix have?
- (1) 64  
(2) 72  
(3) 75  
(4) 80

**Section B (20 marks)**

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each.  
For each question from 26 to 30, show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

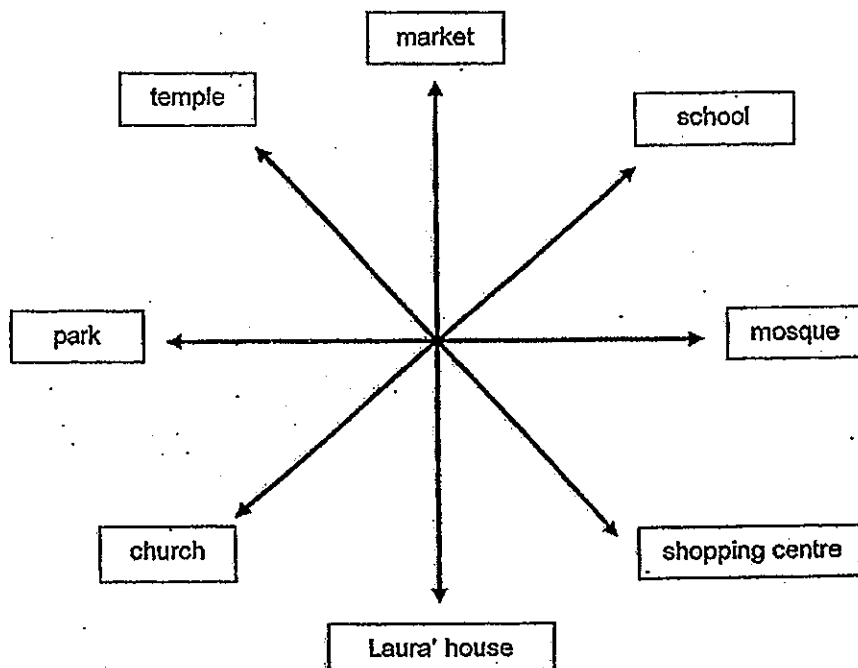
---

16. What is the sum of the value of the digits "5" in 4567 and 56 789 ?

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

---

17. Refer to the diagram below. Harry was facing the church. He then turned  $225^\circ$  anti-clockwise. Where is Harry facing now?



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

---

18. There are 140 children in the school hall. 78 of them are girls and the rest are boys. What is the ratio of the number of boys to the number of girls? Give your answer in simplest form.

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

---

19. Express  $\frac{9}{12}$  as a percentage.

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

---

20. What is the smallest whole number that is divisible exactly by 6 and 9?

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

---

21. Find the sum of the first 5 multiples of 7.

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

---



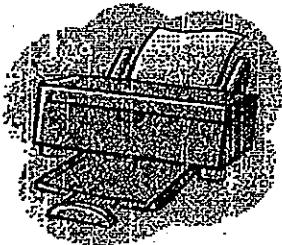
22. Arrange the following lengths in descending order.

2 m 5 cm       $\frac{11}{5}$  m       $2\frac{3}{4}$  m      250 cm

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

---

23. The usual price of a printer is \$180. How much does Bala have to pay during a sale?

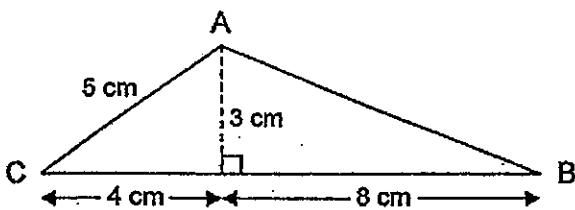


**SALE!**  
25% discount

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

---

24. In the figure below (not drawn to scale), find the area of triangle ABC.



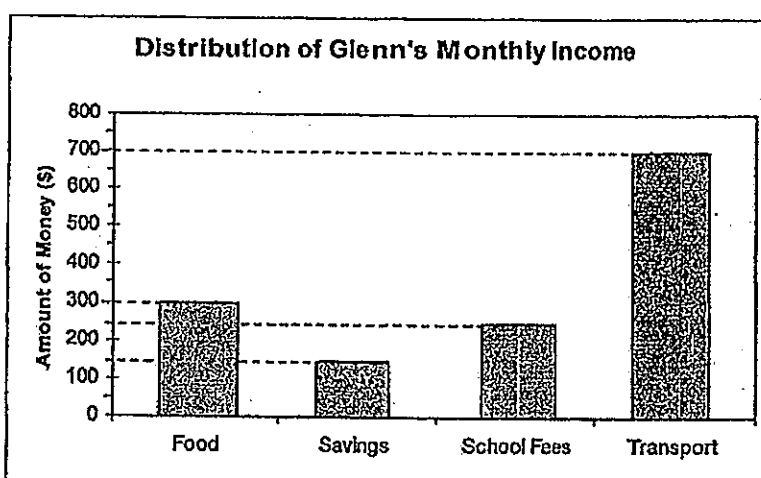
Ans: \_\_\_\_\_  $\text{cm}^2$

---

25. Kerry had 130 beads at first. After her sister gave her 50 beads, they both had an equal number of beads. How many beads did her sister have at first?

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

26. The graph below shows how Glenn allocated his monthly income in July.



How much did Glenn spend in July?

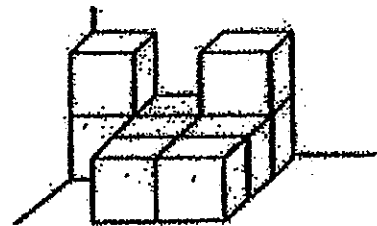
Ans: \$ \_\_\_\_\_

27. Ivan spends \$4.30 each day while Julian spends \$8 each day. When Julian spends \$96, how much does Ivan spend?

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

---

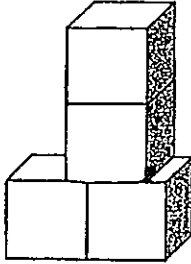
28. The solid figure below is made up of some 3-cm cubes. What is the volume of the solid figure?



Ans: \_\_\_\_\_  $\text{cm}^3$

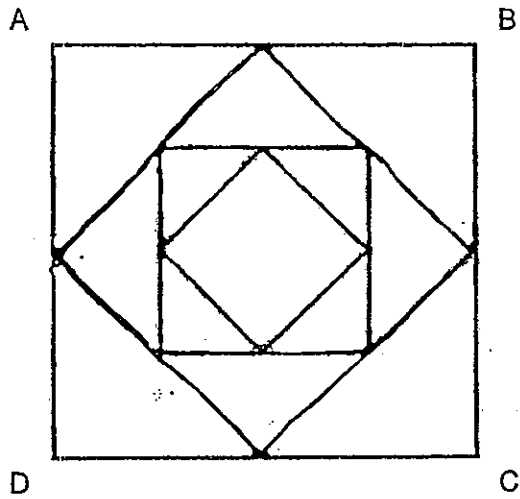
---

29. A block of solid wood is dipped fully into a pail of blue paint. When the paint dried, the block of wood was then cut into 4 identical cubes along the lines drawn on the cube as shown below. The total unpainted area of the 4 cubes was  $54 \text{ cm}^2$ . What is the volume of 1 such cube?



Ans: \_\_\_\_\_  $\text{cm}^3$

30. The figure below is made up of squares of four different sizes. Given that square ABCD has a perimeter of 32 cm, find the area of the shaded parts.



Ans: \_\_\_\_\_  $\text{cm}^2$

--- End of Paper 1 ---



NAN HUA PRIMARY SCHOOL  
CONTINUAL ASSESSMENT 2 – 2013  
PRIMARY 5

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

5 Short Answer Questions (10 marks)

13 Structured / Long Answer Questions (50 marks)

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 and show your workings clearly.
5. You are allowed to use a calculator.

Marks Obtained

Total		/ 60
-------	--	------

Name : \_\_\_\_\_ ( )

Class : 5 \_\_\_\_\_

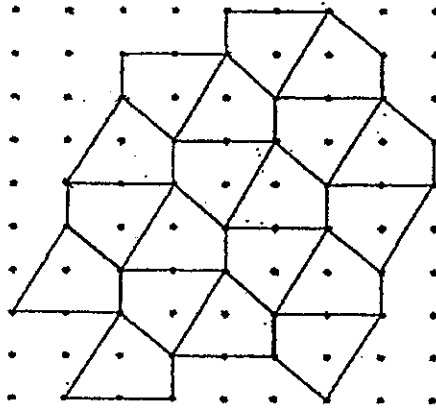
Date : 29 August 2013

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

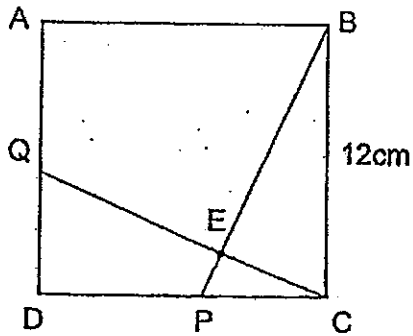
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

Do not write in this space

1. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing 2 more unit shapes. [2]



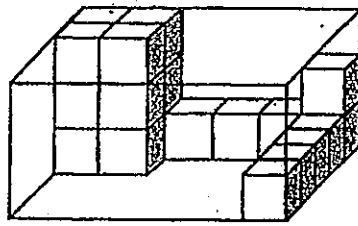

2. The figure below is made of a square ABCD of sides 12 cm and 2 identical right-angled triangles. Given that the quadrilateral DPEQ has an area of  $23 \text{ cm}^2$  and length AQ: QD is in the ratio 7:5, find the area of triangle CEP.



Answer: \_\_\_\_\_  $\text{cm}^2$  [2]

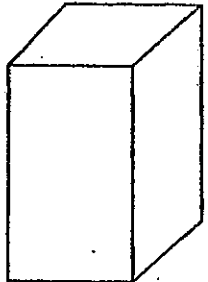
3. The figure shows a rectangular glass box partly filled with identical 2-cm cubes. When the box is completely filled with 2-cm cubes, how many cubes are there in the box altogether?

Do not write in this space



Answer: \_\_\_\_\_ [2]

4. The square base of a cuboid as shown below is  $256 \text{ cm}^2$ . The height of the cuboid is twice the length of the square base. Find the volume of the cuboid.



Answer: \_\_\_\_\_  $\text{cm}^3$  [2]



5. Mrs Tan paid \$84 for a cooking pot after a discount of 40%. What was the price of the cooking pot before the discount?

Answer: \$ \_\_\_\_\_ [2]

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 the brackets [ ] at the end of each question or part question. [50 marks]

Do not write  
in this space

6. Mrs Lim paid for some grocery at a supermarket. She used only \$5 notes to pay for the grocery. If she used only \$2 notes to pay for the grocery instead, she would need 9 more \$2 notes than \$5 notes. How much did the grocery cost?

Answer: \_\_\_\_\_ [3]

7. There is an equal number of girls in classes 6A and 6B.  
 $\frac{2}{3}$  of the pupils in class 6A are girls and  $\frac{1}{5}$  of the pupils in class 6B are boys.  
Given that the two classes have a total of 24 boys, how many pupils are there in class 6A?

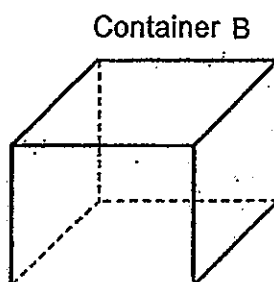
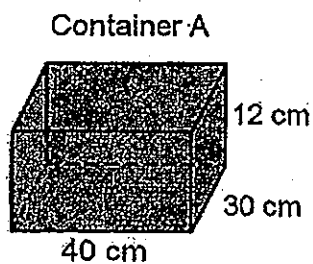
Answer: \_\_\_\_\_ [3]

Do not write  
in this space

8. Some children were in the hall. The ratio of the number of boys to the number of girls was 5 : 1. Another 60 girls came into the hall and the ratio of the number of boys to the number of girls became 2 : 1. How many boys were there?

Answer: \_\_\_\_\_ [3]

9.



Container A is completely filled with water. Half of the water from container A is poured into container B. Container B is now one third full. What is the capacity of container B in litres?

Answer: \_\_\_\_\_ [3]

10. A box of sugar has a mass of 4.65 kg. An identical box containing flour <sup>has</sup> as a mass of 7.89 kg. If the mass of the sugar is  $\frac{1}{4}$  that of the flour, what is the mass of the flour?

Answer: \_\_\_\_\_ [3]

11. A tour bus can carry a maximum of 42 children or 36 adults. Given that there are already 28 children and 6 adults on the bus, what is the maximum number of additional adults that can be allowed on the bus?

Answer: \_\_\_\_\_ [3]

Do not write  
in this space

12. A shop owner bought some cans of dog food. He divided the dog food equally among his dogs. If he gave 7 cans to each dog, he would have 4 cans left. If he gave 11 cans to each dog, he would need 28 more cans. How many dogs were there in the pet shop?

Do not write  
in this space

Answer: \_\_\_\_\_ [4]

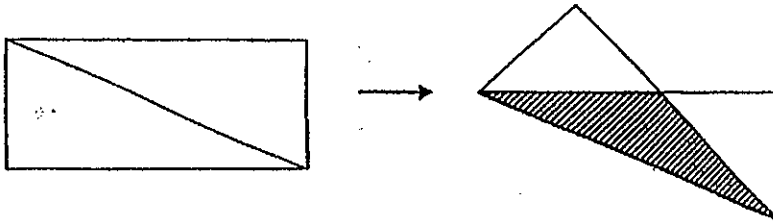
13. A rectangle is folded along a diagonal as shown.

The area of the figure is now  $\frac{5}{8}$  of the area of the original rectangle.

The area of the shaded triangle is  $18 \text{ cm}^2$ .

(a) Find the area of the original rectangle.

(b) Find the area of the unshaded part of the new figure.



Do not write  
in this space

Answer: (a) \_\_\_\_\_ [3]

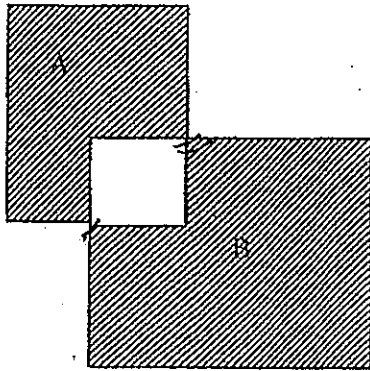
Answer: (b) \_\_\_\_\_ [1]



14. The figure below is made by 2 overlapping rectangles A and B.

$\frac{5}{7}$  of rectangle A and  $\frac{8}{9}$  of rectangle B is shaded.

- (a) Express the unshaded area as a fraction of the total area of the figure.
- (b) Given that the unshaded area is a square of area  $64 \text{ cm}^2$ , what is the area of the shaded part of rectangle A?



Do not write  
in this space

Answer: (a) \_\_\_\_\_ [2]  
(b) \_\_\_\_\_ [2]



15. Samuel spent  $\frac{2}{7}$  of his money on a box of biscuits.

He spent  $\frac{9}{10}$  of the remaining money on donuts.

(a) What fraction of his money did he spend on donuts?

(b) If he was left with \$9.25, how much did he have at first?

Do not write  
in this space

Answer: (a) \_\_\_\_\_ [2]

Answer: (b) \_\_\_\_\_ [3]

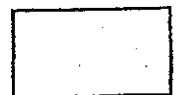




16. The ratio of Jeremiah's age to his aunt's age is 1 : 2.  
In 15 years' time, the new ratio will be 8 : 13.  
How old was Jeremiah 8 years ago?

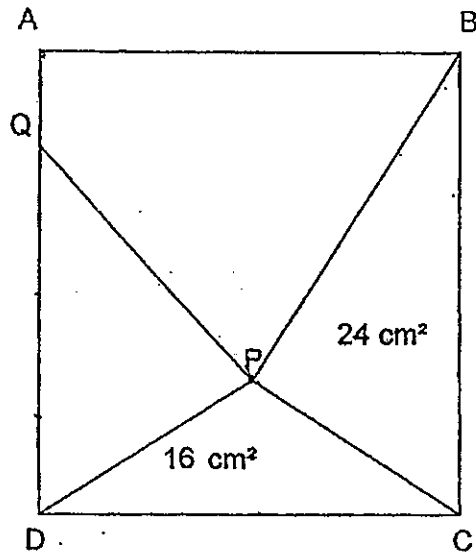
Do not write  
in this space

Answer: \_\_\_\_\_ [5]



- 17 In the figure given below, ABCD is a rectangle. P is a point such that  $DP = PC$ . Given that AQ is  $\frac{1}{3}$  the length of QD, find the area of the quadrilateral ABPQ.

Do not write  
in this space



Answer: \_\_\_\_\_ [5]



18. There were 90 more boys than girls at a school funfair.  
After 80% of the boys and 30% of the girls left the funfair.  
There were twice as many girls as boys that remained.  
How many boys were at the funfair at first?

Do not write  
in this space

Answer: \_\_\_\_\_ [5]

End-of-Paper



# ANSWER SHEET

EXAM PAPER 2013

SCHOOL : NAN HUA PRIMARY SCHOOL

LEVEL : PRIMARY 5

SUBJECT : MATHES

TERM : CA2

Booklet A

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

16. 50500

17. Market

18. 31:39

19. 75%

20. 18

21. 105

22.  $2\frac{3}{9}$ , 250cm,  $11\frac{1}{5}$ , 2m5cm

23. 135

24. 18

25. 230

26. 1250

27. 51.60

28. 243

29. 27

30. 8

Paper2

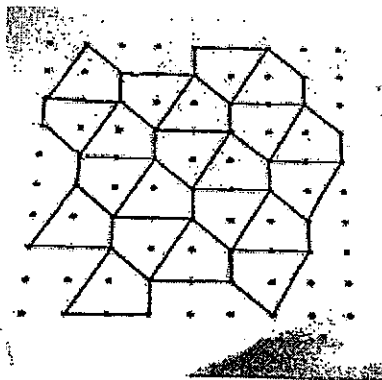
1. ..

2.  $7+5=12$

$12 \div 12 = 1$

$\frac{1}{2} \times 5 \times 12 = 30$

$30 - 23 = 7$



3.  $6 \times 3 \times 5 = 90$

4.  $256 = 16 \times 16$   
 $16 \times 2 = 32$   
 $16 \times 16 \times 32 = 8192$

5. 60% ---- 84  
10% ---- 14  
100% ---- 140

6. Multiple of 2 : 2,4,6,8,10,12,14  
+9 : 20,22,24,26,28,30,32  
Multiple of 5 : 5, 10,15,20,25,30,25  
Ans : \$30

7. G: B  
2:1  
4:2

G:B  
4:1

$2+1=3$   
 $24 \div 3=8$   
 $8 \times 6=48$

8. B:G  
5:1  
10:2

B:G  
2:1  
10:5

3u ---- 60  
1u ---- 20  
10u ---- 200

9.  $40 \times 30 \times 12 = 14400$   
 $14400 \div 2 = 7200$   
 $7200 = 7200 \text{ml}$   
 $7200 \times 3 = 21600$

10.  $7.89 - 4.65 = 3.24$

$$3.24 \div 3 = 1.08$$
$$1.08 \times 4 = 4.32$$

11. 7c --- 6a  
28c ---- 24a  
 $24 + 6 = 30$   
 $36 - 30 = 6$

12.  $28 + 4 = 32$   
 $11 - 7 = 4$   
 $32 \div 4 = 8$

13. A.  $8 - 5 = 3$   
 $18 \div 3 = 6$   
 $6 \times 8 = 48$

B.  $5 \times 6 = 30$   
 $48 - 18 \times 2 = 12$

14. A. A ( 5:2 )  
B ( 8:1 ) - B ( 16: 2 )  
2/23  
B. 2u ---- 64  
5u ---- 160

15. A.  $2/7 = 20/70$   
10u --- 50  
9u ---- 45  
 $45/70 = 9/14$

B.  $9.25 \times 10 = 92.50$   
 $92.50 \div 5 = 18.50$   
 $18.50 \times 7 = 129.50$

16. 1:2 ---- 5:10  
 $8 - 5 = 3$   
3u --- 15  
1u --- 5  
5u --- 25  
 $25 - 8 = 17$

17. Area of ADP is same as BPC

Area of APQ = 1/3 of DPQ

APQ: DPQ

1:3

4u --- 24

1u --- 6

6+16+16=38

18. 100% - 80% = 20%

100% - 30% = 70%

2B = 1G

2 x 1/5 of boys ---- 7/10 of girls

2/5 of boys ---- 14/20 of girls

14/35 of boys --- 14/20 of girls

35u - 20u = 15u

15u ---- 90

1u --- 90 ÷ 15 = 6

35u --- 6 x 35 = 210