



**Rosyth School**  
**First Semestral Assessment 2015**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_ Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 12<sup>th</sup> May 2015 Parent's Signature: \_\_\_\_\_

Total Time for Booklets A and B : 50 minutes

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**PAPER 1**  
**(Booklet A)**

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are **not** allowed to use a calculator.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

\* This booklet consists of 7 pages (including this cover page)

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. Which of the following numbers is two million and fourteen thousand, five hundred and six?

- (1) 2 014 056
- (2) 2 014 506
- (3) 2 140 056
- (4) 2 140 506

2. Which of the following numbers are common factors of 12 and 18?

- 1) 3 and 6
- 2) 3 and 8
- 3) 4 and 6
- 4) 4 and 8

3. The amount Mr Koh paid for his apartment was \$960 000 when rounded off to the nearest ten thousand. Which of the following could be the actual cost of the apartment?

- (1) \$950 999
- (2) \$954 999
- (3) \$964 499
- (4) \$965 499

4.  $700\,000 + \boxed{\phantom{000}} + 5000 + 400 + 30 + 2 = 765\,432$

What is the missing number in the box?

- (1) 60
- (2) 600
- (3) 6 000
- (4) 60 000

5. There were 50 children and 300 adults during a farm visit. What fraction of the visitors were children?

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

(2)  $\frac{1}{6}$

(3)  $\frac{1}{5}$

(4)  $\frac{6}{7}$

6. Which of the following has the same value as  $\frac{15}{500}$ ?

(1) 0.015

(2) 0.150

(3) 0.030

(4) 0.300

7. Which of the following is greater than  $\frac{5}{8}$ ?

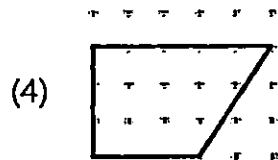
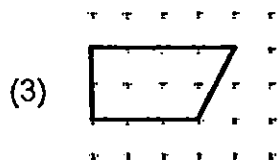
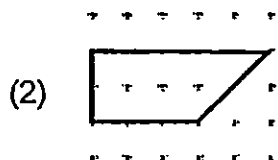
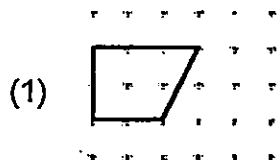
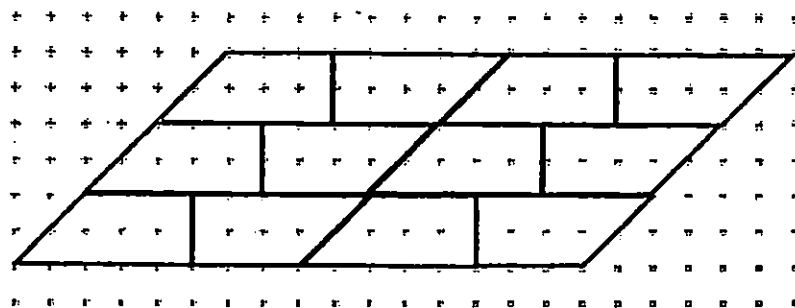
1)  $\frac{1}{2}$

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

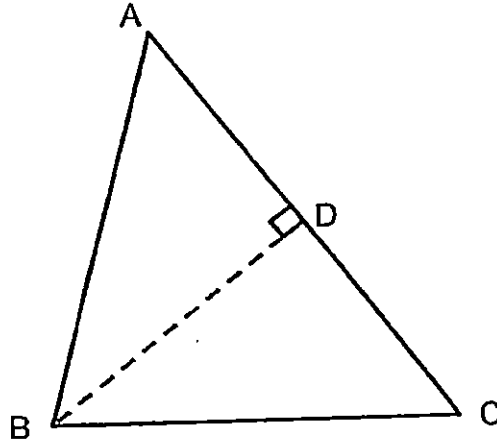
3)  $\frac{4}{7}$

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

8. Which of the following shapes will form the tessellation shown below?



9. The figure below shows a triangle ABC. Which of the following lines is the height of this triangle?

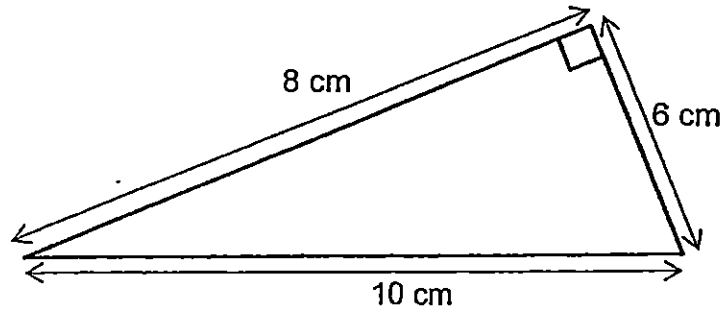


- (1) AB  
(2) BC  
(3) AC  
(4) BD
10. The table below shows the number of cars a mechanic repaired in the morning and afternoon last week.  
On how many days was the mechanic able to repair at least 3 cars?

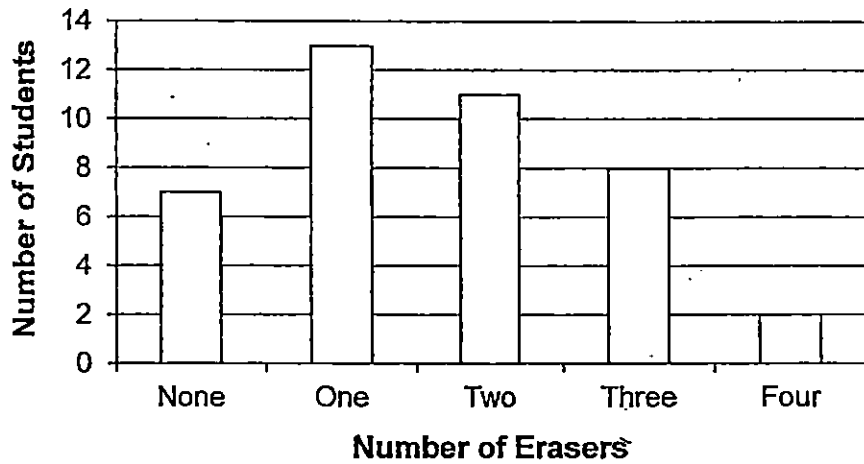
Day	Number of Cars Repaired	
	Morning	Afternoon
Monday	2	1
Tuesday	3	2
Wednesday	1	1
Thursday	0	3
Friday	3	1
Saturday	3	0

- (1) 5  
(2) 2  
(3) 3  
(4) 4

11. Find the area of the triangle below. The figure is not drawn to scale.

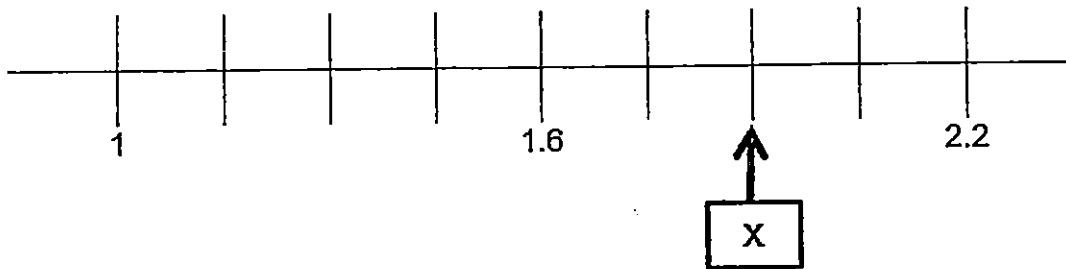


- (1)  $24 \text{ cm}^2$   
(2)  $30 \text{ cm}^2$   
(3)  $40 \text{ cm}^2$   
(4)  $48 \text{ cm}^2$
12. Mdm Aziza counted the number of erasers each student in her class has in their pencil cases. She recorded the information in a bar graph shown below. What is the total number of erasers the students have?



- (1) 34  
(2) 41  
(3) 64  
(4) 67

13. In the number line below, find the value of X.



- (1) 1.62  
(2) 1.80  
(3) 1.90  
(4) 2.00
14. Mei Ling bought a television and a computer.  
The mass of the television was 12 kg.  
 $\frac{3}{5}$  of the computer weighs as much as  $\frac{3}{4}$  of the television.  
What was the mass of the computer?
- (1)  $7\frac{1}{5}$  kg  
(2) 9 kg  
(3)  $9\frac{3}{5}$  kg  
(4) 15 kg
15. There were as many boys as girls in a hall.  $\frac{2}{3}$  of the boys and  $\frac{1}{6}$  of the girls went left for recess. What fraction of the class went for recess?
- (1)  $\frac{1}{9}$   
(2)  $\frac{1}{3}$   
(3)  $\frac{5}{12}$   
(4)  $\frac{5}{6}$



**Rosyth School**  
**First Semestral Assessment 2015**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_ Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 12<sup>th</sup> May 2015

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

Total Time for Booklets A and B : 50 minutes

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**PAPER 1**  
**(Booklet B)**

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. You are not allowed to use a calculator.
4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

\* This booklet consists of 6 pages (including this cover page)



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)

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16. Fill in the blank with the correct number to complete the number pattern.

9 322, 9 302, \_\_\_\_\_, 9 262, 9 242

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

17. Find the sum of  $\frac{3}{4}$  and  $\frac{2}{9}$ .

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

18. Find the value of  $203.9 \times 60$ .

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

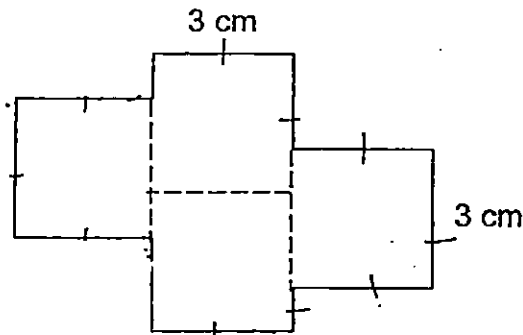
19. Express 20 km 8 m in metres.

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

20. Bala earned \$1 530 in March and \$3 050 in April. What was the average amount Bala earned in the two months?

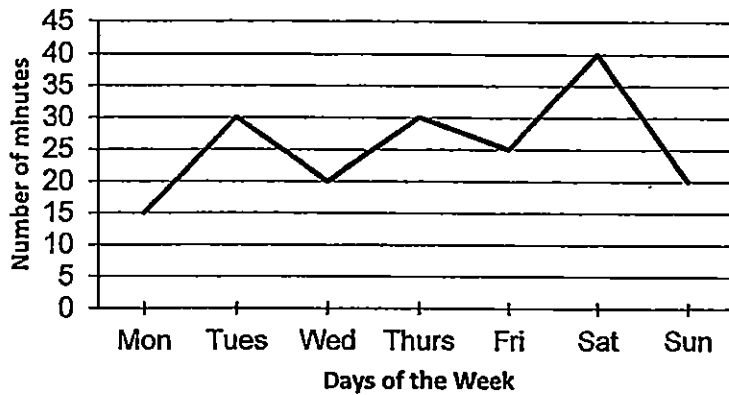
Ans: \$ \_\_\_\_\_

21. The figure below is made up of 4 identical squares with each side measuring 3 cm. Find the perimeter of the figure.



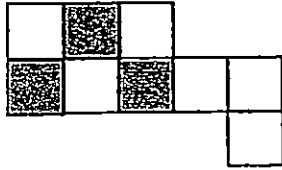
Ans: \_\_\_\_\_ cm

22. The graph below shows the number of minutes James took to do his Mathematics homework last week. What was the total number of hours he took to do his Mathematics homework last week?



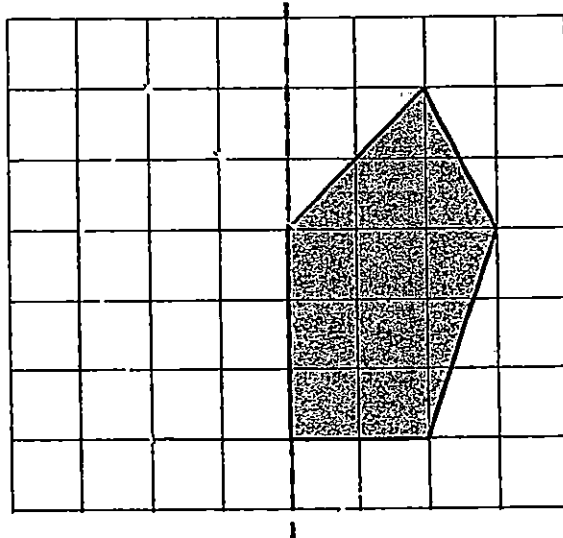
Ans: \_\_\_\_\_ h

23. How many more squares must be shaded so that  $\frac{2}{3}$  of the figure would be shaded?

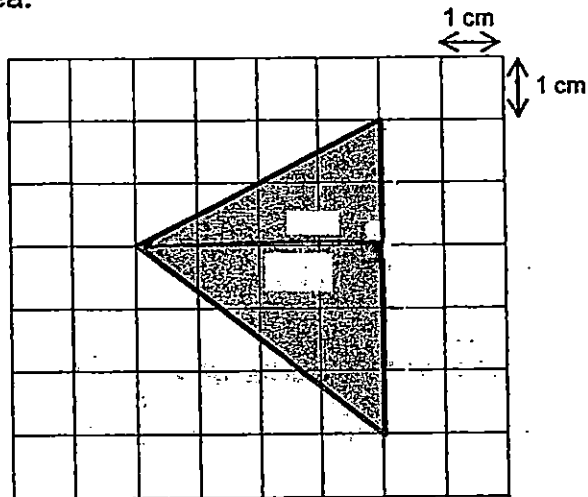


Ans: \_\_\_\_\_

24. Complete the figure using the dotted line as the line of symmetry.



25. The side of 1 small square (not drawn to scale) is 1 cm. Find the shaded area.



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

Questions 26 to 30 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.

(10 marks)

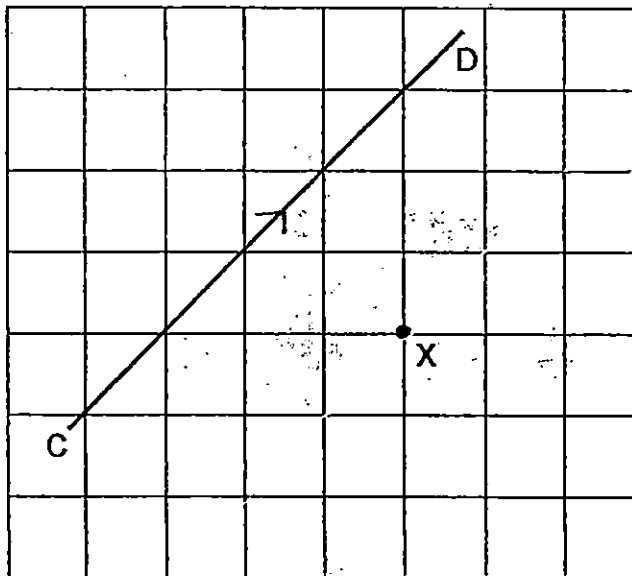
26. Divide 8080 by 7. What is the remainder?

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

27. What are the third and fourth common multiples of 6 and 8?

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

28. In the space below, the straight line CD and the point X is given. Draw a line parallel to the line CD through the point X.



29. John jogged 3 km from his house to school. His classmate Mary jogged  $\frac{3}{8}$  km less than he did. What was the total distance John and Mary jogged? Give your answer in the simplest form.

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

30. Boston bought  $\frac{5}{9}$  ℓ of paint to paint his bedroom and kitchen. He used  $\frac{3}{5}$  of the paint for his bedroom. After using the remaining paint, he needed another  $\frac{2}{3}$  ℓ to paint his kitchen. How much paint did he use to paint his kitchen? Give your answer in the simplest form.

Ans: \_\_\_\_\_ ℓ

**End of Booklet B**



**Rosyth School**  
**First Semestral Assessment 2015**  
**Primary 5 Mathematics**

Name: \_\_\_\_\_ Register No. \_\_\_\_\_

Class: Pr 5 - \_\_\_\_\_

Date: 12<sup>th</sup> May 2015 Parent's Signature: \_\_\_\_\_

Time: 1 h 40 min

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**PAPER 2**

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. **Show your workings clearly** as marks are awarded for correct working.
4. Write your answers in this booklet.
5. You are allowed to use a calculator.
6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total	100	

**\* This booklet consists of 17 pages (including this cover page)**

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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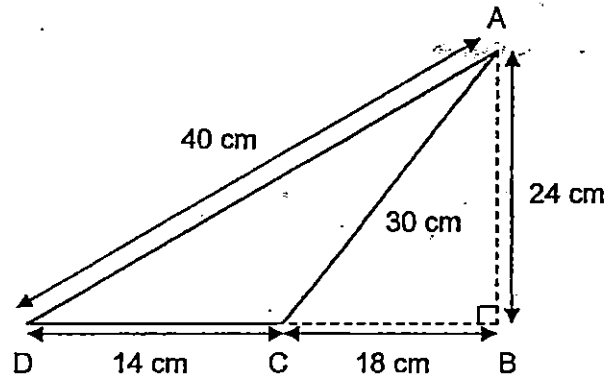
1. Peter packed marbles of different colours in plastic bags. Each bag contained 15 red marbles, 18 blue marbles and 14 green marbles. He packed 56 bags. What was the total number of marbles he packed?

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

2. James has  $\frac{2}{5}$  as many pencils as Dorothy and  $\frac{2}{3}$  as many pencils as Tim. They have a total of 120 pencils. How many pencils does James have?

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

3. Find the area of triangle ACD.



Ans: \_\_\_\_\_ cm<sup>2</sup>

4. Mrs Lim's family ate a total of  $\frac{8}{9}$  kg of rice in November and December. The amount of rice eaten in December was twice as much as the amount eaten in November. How much rice did Mrs Lim's family eat in December?

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



5. Alan, Bala and Caili scored an average of 85 marks. Alan scored 3 marks more than Bala and 6 marks less than Caili. How many marks did Caili score?

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

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)

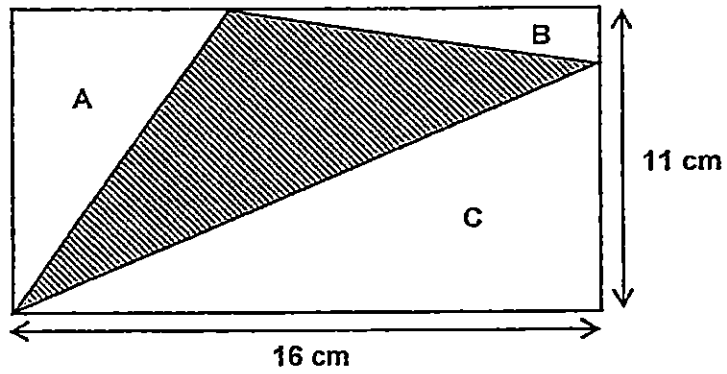
6. The table below shows the charges for parking at a public car park.

Time	Parking Charges
7.00 a.m. to 6.00 p.m.	\$2.00 per hour
6.00 p.m. to 10.00 p.m.	\$1.50 per hour or part thereof
10.00 p.m. to 7.00 a.m.	\$3.00 per entry

Mrs Brown parked her car at the car park from 5.00 p.m. to 8.10 p.m. How much did she pay to park her car?

Ans: \_\_\_\_\_ [3m]

7. The figure below shows four triangles within a rectangle. The total area of A and B is  $\frac{2}{3}$  the area of C. The area of C is  $57 \text{ cm}^2$ . What is the area of the shaded triangle?  
(The figure is not drawn to scale)

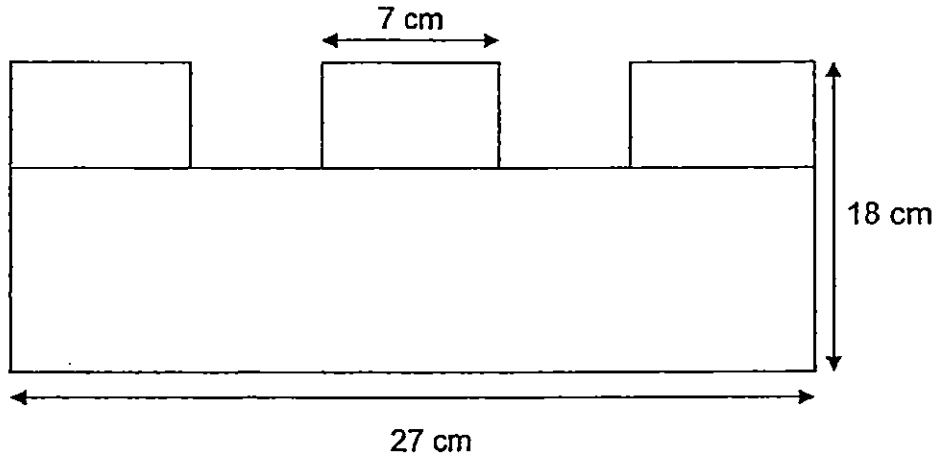


Ans: \_\_\_\_\_ [4m]

8. The average age of 15 participants in a baking class was 39 years. When 3 students left the class, the average age of the remaining students became ~~58~~<sup>36</sup> years. If the 3 students were of the same age, what was the age of 1 student who left the class?

Ans: \_\_\_\_\_ [3m]

9. The figure below is made up of 3 identical small rectangles and 1 large rectangle. The breadth of the large rectangle is twice the breadth of the small rectangle. Find the area of the figure.



Ans: \_\_\_\_\_ [4m]

10. Susan bought  $\frac{1}{4}$  of the chocolates at a stall. She gave the stall owner \$150 and got \$42 change back. Each chocolate costs \$6. How many chocolates did the stall owner have at first?

Ans: \_\_\_\_\_ [3m]

11. A crate contained apples and pears. There were 29 more apples than pears at first. After  $\frac{1}{3}$  of the apples were removed from the crate, there were 5 more apples than pears. What was the total number of apples and pears in the crate at first?

Ans: \_\_\_\_\_ . [3m]

12. Tank A contained 755 litres of water. Tank B contained 170 litres of water. After an equal amount of water was poured into each tank, Tank A had four times as much water as Tank B.
- a) How much water was poured into each tank?
  - b) What was the total amount of water in Tank A and Tank B in the end?

Ans: a) \_\_\_\_\_ [3m]

b) \_\_\_\_\_ [1m]



13. Andy and Billy each had some sweets. If Andy gave 23 sweets to Billy, they would have the same number of sweets. If Billy gave 7 sweets to Andy, Andy would have 5 times as many sweets as Billy.
- a) How many sweets did Andy have?
  - b) How many sweets did Billy have?

Ans:a) \_\_\_\_\_ [3m]

b) \_\_\_\_\_ [1m]

14. John had some green, red and black beans in his container.  $\frac{3}{7}$  of the beans were red.  $\frac{4}{5}$  of the remainder was green and the rest were black. There were 44 more red beans than black beans.
- How many beans did John have altogether?
  - How many more green beans than black beans were there in the container?

Ans: a) \_\_\_\_\_ [3m]

b) \_\_\_\_\_ [2m]

15. Ahmad bought some books at an average price of \$3.50 each. He bought another 2 books at \$6 each and the average price became \$4. How many books did he buy altogether?

Ans: \_\_\_\_\_ [3m]

16. During a concert break,  $\frac{3}{8}$  of the children and  $\frac{4}{7}$  of the adults left the hall. The number of children and the number of adults who remained in the hall was equal. 1080 children remained in the hall. What was the total number of adults and children who attended the concert?

Ans: \_\_\_\_\_ [4m]

17. Daniel had a sum of money. If he bought 6 files, he would be left with \$12.60. If he bought 23 pens, he would be short of \$2.80. A file costs twice as much as a pen. What is the maximum number of files Daniel can buy if he wants to buy an equal number of files and pens?

Ans \_\_\_\_\_ [5m]

18. Joel bought 5 pairs of shorts and spent the same amount of money on 7 T-shirts.  
Each pair of shorts cost \$12 more than each T-shirt
- a) What was the cost of 1 T-shirt?
  - b) How much money did Joel spend altogether?

Ans: a) \_\_\_\_\_ . [3m]

b) \_\_\_\_\_ . [2m]

**End of Paper**



**EXAM PAPER 2015**  
**LEVEL : PRIMARY 5**  
**SCHOOL : ROSYTH SCHOOL**  
**SUBJECT : MATHS**  
**TERM : SA1**

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

Q16. 9282

Q17.  $\frac{35}{36}$

Q18. 12234

Q19. 20008m

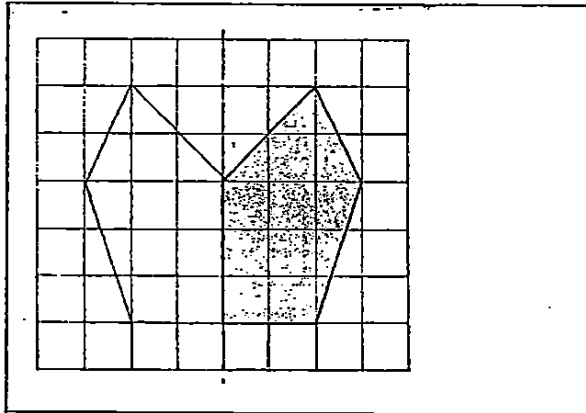
Q20.  $\$2290 \rightarrow \$1530 + \$3050 = 4580, \$4580 \div 2 = \$2290$

Q21.  $30\text{cm} \rightarrow 10 \times 3 \text{ cm} = 30\text{cm}$

Q22.  $3\text{hr} \rightarrow 15+30+20+30+25+40+20=180\text{min.}$

Q23.  $3 \rightarrow 9 \div 3 = 3, 3 \times 2 = 6, 6 - 3 = 3.$

Q24. SEE PICTURE



Q25.  $10\text{cm}^2 \rightarrow \frac{1}{2} \times 5 \times 4 = 10$

Q26.  $2. \rightarrow 8080 \div 7 = 1154\text{r}2$

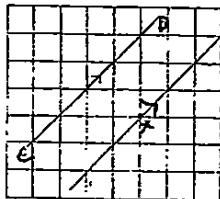
Q27. 72 and 96

Multiples of 6  $\rightarrow 6, 12, 18, 24, 30, 36, 42, 48, 54, 60 \dots$

Multiples of 8  $\rightarrow 8, 16, 24, 32, 40, 48, 56, 64, 72, 80 \dots$

$24 \times 3 = 72, 24 \times 4 = 96$

Q28. SEE PICTURE



Q29.  $5\frac{5}{8}\text{km} \rightarrow 3 - \frac{3}{8} = 2\frac{5}{8} (M), 3 + 2\frac{5}{8} = 5\frac{5}{8} (J + M)$

Q30.  $\frac{8}{9}\text{litre} \rightarrow \frac{2}{9}\ell + \frac{2}{3}\ell = \frac{2}{9}\ell + \frac{6}{9}\ell = \frac{8}{9}\ell$

Q1.  $2632 \rightarrow 15+18+14=47$  (no. of marbles in each bag),  $56 \times 47=2632$

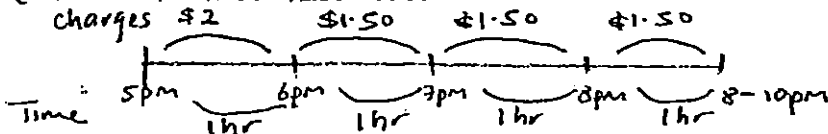
Q2.  $24 \rightarrow 10U \rightarrow 120, U \rightarrow 120 \div 10=12, 2U \rightarrow 12 \times 2 = 24$

Q3.  $168\text{cm}^2 \rightarrow A \rightarrow \frac{1}{2} \times B \times H, \frac{1}{2} \times 14 \times 24 = 168$  (Area of  $\Delta ACD$ )

Q4.  $\frac{16}{27}kg \rightarrow 3U \rightarrow \frac{8}{9}, U \rightarrow \frac{8}{9} \div 3 = \frac{8}{9} \times \frac{1}{3} = \frac{8}{27}, 2U \rightarrow \frac{8}{27} \times 2 = \frac{16}{27}$

Q5.  $90 \rightarrow 85 \times 3 = 255$  (total marks)  $\rightarrow 3U \rightarrow 255 - 3 - 3 - 6 = 243, U \rightarrow 243 \div 3 = 81, 81 + 3 + 6 = 90$  (C)

Q6.  $\$6.50 \rightarrow \$2 + \$1.50 + \$1.50 = \$6.50$



Q7.  $81cm^2 \rightarrow$  Area of C  $\rightarrow 57cm^2, 57cm^2 \div 3 = 19cm, 19cm^2 \times 2 = 38cm^2$  (area of A & B),  $57cm^2 + 38cm^2 = 95cm^2$  (Area of A+B+C), Total area  $\rightarrow 11cm \times 16cm = 176cm^2$ , shaded area  $\rightarrow 176cm^2 - 95cm^2 = 81cm^2$

Q8.  $51 \rightarrow 15 \times 39 = 585, 15 - 3 = 12, 12 \times 36 = 432, 585 - 432 = 153, 153 \div 3 = 51$

Q9.  $450cm^2 \rightarrow 3U \rightarrow 18, 1U \rightarrow 6, 1$  small rect.  $\rightarrow 7 \times 6 = 42, 3$  small rect.  $\rightarrow 42 \times 3 = 136$   
 1 big rect  $\rightarrow 27 \times 12 = 324, Total \rightarrow 126 + 324 = 450$

Q10.  $72 \rightarrow \$150 - \$42 = \$108, \$108 \div \$6 = 18$  of chocolates,  $\frac{4}{4} \rightarrow 72$  chocolates

Q11.  $115 \rightarrow 29 - 5 = 24, \frac{1}{3} \rightarrow 24, \frac{3}{3} \rightarrow 24 \times 3 = 72$  (no. of apples at first),  $72 - 79 = 43$  (no. of pears at first),  $72 + 43 = 115$  (total no. of A + P at first)

Q12.a. 25 litre

Q12b. 975 litre

$755$  litre  $\rightarrow 170$  litre =  $585$  litre,  $3U \rightarrow 585$  litre,  $U \rightarrow 585 \div 3 = 195$  litre,  $195 - 170 = 25$   
 $4U \rightarrow 195 \times 4 = 780$  (Amt. of water in Tank A in the end),  $780 + 195 = 975$

Q13a. 68

Q13b. 22

$23 \times 2 = 46, 4U \rightarrow 7 + 46 + 7 = 60, U \rightarrow 60 \div 4 = 15, 15 + 7 + 46 = 68$  (Andy),  $15 + 7 = 22$  (Billy)

Q14a. 140

Q14b. 48

$\frac{15}{35} - \frac{4}{35} = \frac{11}{35}, 11U \rightarrow 44, U \rightarrow 44 + 11 = 4,$

$35U \rightarrow 35 \times 4 = 140$  (a),  $\frac{16}{35} - \frac{4}{35} = \frac{12}{35}, 12U \rightarrow 12 \times 4 = 48$  (b)

Q15.  $10 \rightarrow 6 - 2 = 2$  (excess),  $4 - 3.50 = 0.50$  (diff. between old and new average),  $\rightarrow (2 \times 2) \div 0.50 = 8, 8 + 2 = 10$

Q16.  $4248 \rightarrow \frac{5}{8}$  of C =  $\frac{3}{7}$  of A,  $\frac{15}{24}$  of C =  $\frac{15}{35}$  of A,  $15U \rightarrow 1080, U \rightarrow 1080 \div 15 = 72,$   
 (A+C)  $24 + 35 = 59, 59U \rightarrow 72 \times 59 = 4248$

Q17.  $7 \rightarrow 2P = 1F, 12P = 6F, 23 - 12 = 11, 11P \rightarrow \$12.60 + \$2.80 = \$15.40, P \rightarrow \$15.40 \div 11 = 1.40,$   
 $2P \rightarrow 1.40 \times 2 = 2.80, F \rightarrow 2.80, 6F \rightarrow 2.80 \times 6 = 16.80, 16.80 + 12.60 = 29.40$  (money had at first)  
 $1.40 + 2.80 = 4.20$  (cost of 1 set),  $29.40 \div 4.20 = 71, 7 \times 1 = 7$

Q18a. \$30

Q18b. \$420

$5S = 7TS, S - \$12 = TS,$

$1S \rightarrow 1U + 12, 1TS \rightarrow 1U, 5S \rightarrow 5U + \$60, 7TS \rightarrow 7U, 5U + \$60 = 7U, \$60 = 2U, U = \$30$  (a),

$7u = 30 \times 7 = 210, 210 + 210 = \$420$  (b)

THE END