First Semestral Assessment 2016
Primary 5 Mathematics

Date: 10th May 2016

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

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)

All diagrams in this paper are not drawn to scale unless stated otherwise.

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1. Express three million, ninety thousand, five hundred and seven as a numeral.

(1) 3 009 057
(2) 3 009 507
(3) 3 090 057
(4) 3 090 507

2. Express 2 kg 8 g in grams.

(1) 208 g
(2) 2008 g
(3) 2080 g
(4) 2800 g

3. There are 189 495 people living in a town.
Express this number to the nearest thousand.

(1) 180 000
(2) 188 000
(3) 189 000
(4) 190 000

4. Find the difference between 34.9 and 6.07.

(1) 27.39
(2) 28.02
(3) 28.2
(4) 28.83

(Go on to the next page)

5. Which one of the following is <u>not</u> equivalent to 770 ÷ 40 ?

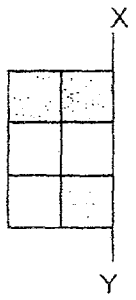
(1) 770 ÷ 2 ÷ 20

(2) 770 ÷ 20 ÷ 20

(3) 770 ÷ 2 ÷ 2 ÷ 10

(4) 770 ÷ 8 ÷ 5

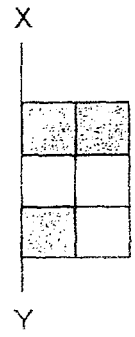
6.



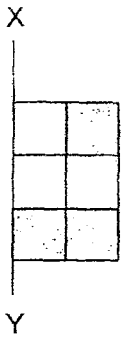
The left half of a symmetric figure is shown above. XY is the line of symmetry. Which one of the following completes the symmetric figure?

(1)

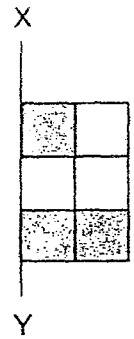
(2)



(3)



(4)



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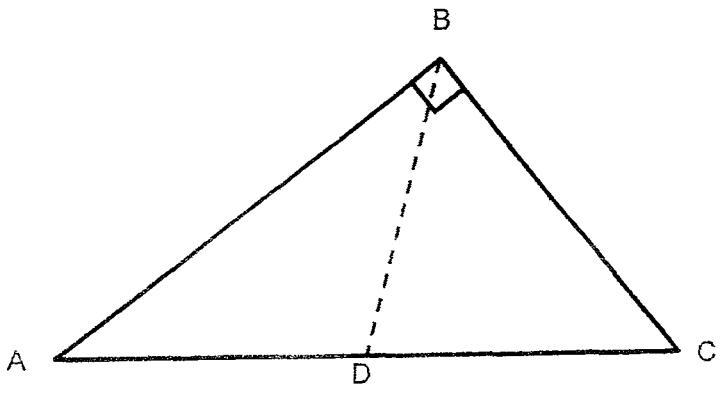
7. The figure below shows a triangle ABC. Which of the following lines is the height of this triangle?



(1) AC

(2) AD

(3) BC

(4) BD

8. Which one of the following has the same value as $\frac{18}{60}$?

(1) 0.18

(2) 0.3

(3) 0.186

(4) 1.8

9. There was a total of 300 visitors at the National Museum. 50 of them were children. What fraction of the visitors was children?

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

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

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

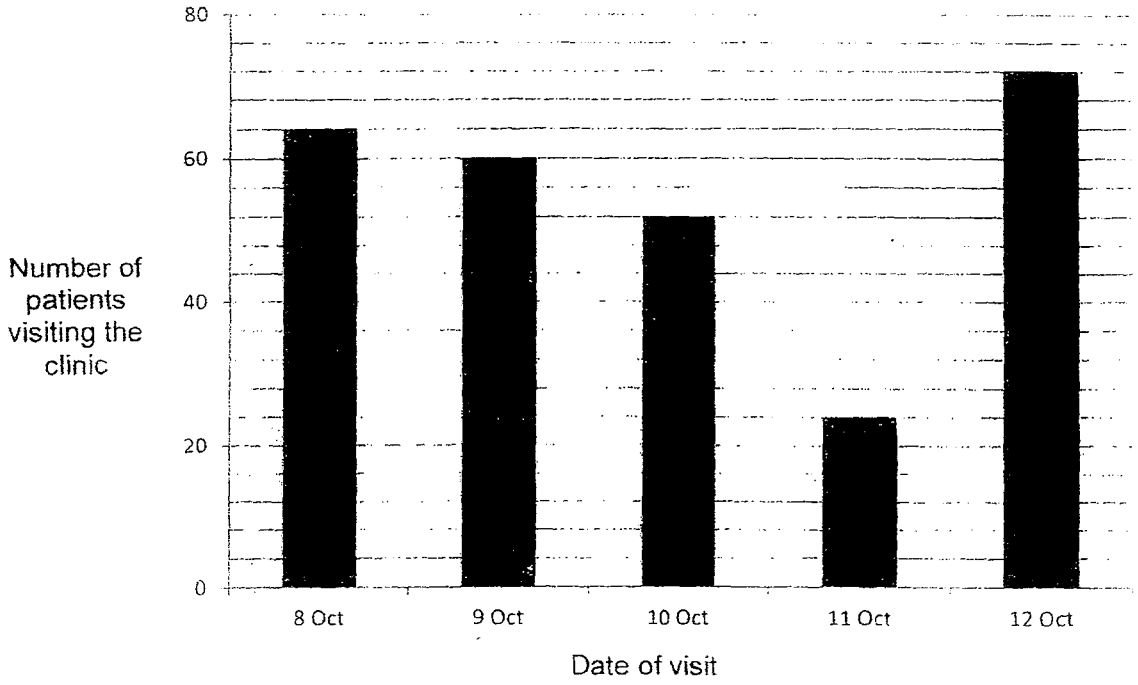
(4) $\frac{5}{6}$

(Go on to the next page)

Use the information below to answer Questions 10 and 11.

The bar graph below shows the number of patients visiting a clinic during a period of time. The average number of patients visiting the clinic is 8 patients per hour.

Clinic opening hours	
Monday to Saturday	9am – 4pm
Sunday	9am – 12.30pm



10. Which date is most probably a Sunday?

(1) 9 October

(2) 10 October

(3) 11 October

(4) 12 October

11. What is the total number of patients visiting the clinic from 8 October to 12 October?

(1) 228

(2) 256

(3) 262

(4) 272

(Go on to the next page)

12. Which one of the following fractions is closest to 1?

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

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

(3) $\frac{5}{6}$

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

13. Matthew threw a beanbag over a distance of 1.8 m. Ben threw the same beanbag and the distance was twice as far as Matthew's. Kumar threw the same beanbag and the distance was 40 cm more than Ben's distance. What was the distance travelled by Kumar's beanbag?

(1) 2.2 m

(2) 3.6 m

(3) 4.0 m

(4) 8.0 m

14. John sold $7\frac{2}{3}$ kg of grapes in the morning. He sold $3\frac{11}{12}$ kg less grapes in the afternoon. How many kilograms of grapes did John sell altogether?

(1) $3\frac{3}{4}$ kg

(2) $10\frac{13}{15}$ kg

(3) $11\frac{5}{12}$ kg

(4) $11\frac{11}{12}$ kg

15. Molly saved half of her daily pocket money from Monday to Friday every week. She had \$62.50 after saving for 10 consecutive weeks. How much was her daily pocket money?

(1) \$1.25

(2) \$2.50

(3) \$6.25

(4) \$12.50

(Go on to Booklet B)

First Semestral Assessment 2016
Primary 5 Mathematics

Date: 10th May 2016

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

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)

All diagrams in this paper are not drawn to scale unless stated otherwise.

Do not write in this space

16. Find the value of the following expression.

$11 - 6 + 10 \div (5 - 3)$

Ans: _____

17. Find the value of 70.8×500

Ans: _____

18. Round off 1489.027 to 2 decimal places.

Ans: _____

19. The total mass of 30 children is 612 kg. What is the average mass of one child?

Ans: _____ kg

(Go on to the next page)

20. 2 pizzas are shared among 5 pupils. What fraction of the pizza will each pupil get?

Do not write in this space

Ans: _____

21. Find the value of $\frac{3}{4} \div 12$.

Give your answer as a fraction in the simplest form.

Ans: _____

22.

Bicycle for Rental	
For the first hour	\$5
For every additional $\frac{1}{2}$ hour	\$3

Ahmad rented a bicycle from 9am to 11.25 a.m. How much did he pay?

Ans:\$ _____

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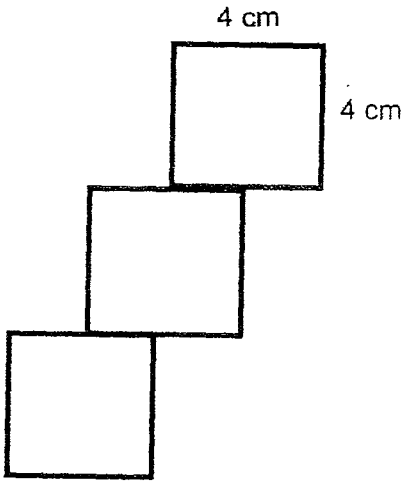
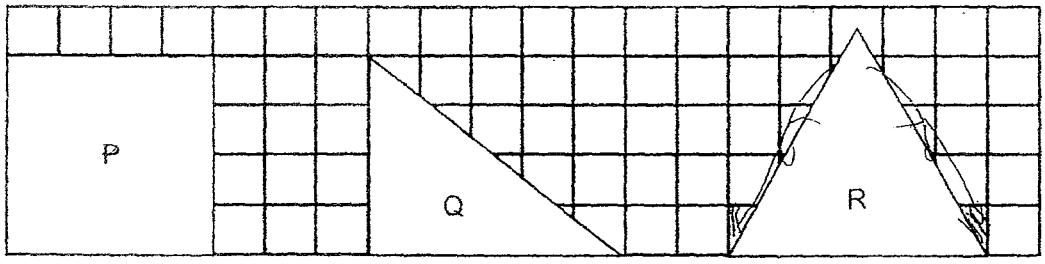
23. The figure below is made up of 3 identical squares with each side measuring 4 cm. Find the perimeter of the figure.



Ans: _____ cm

24. In the square grid below, P is a ~~rectangle~~ square, Q is a right-angled triangle and R is an equilateral triangle. Arrange P, Q and R from the smallest area to the largest.



Ans: _____, _____, _____
smallest

(Go on to the next page)

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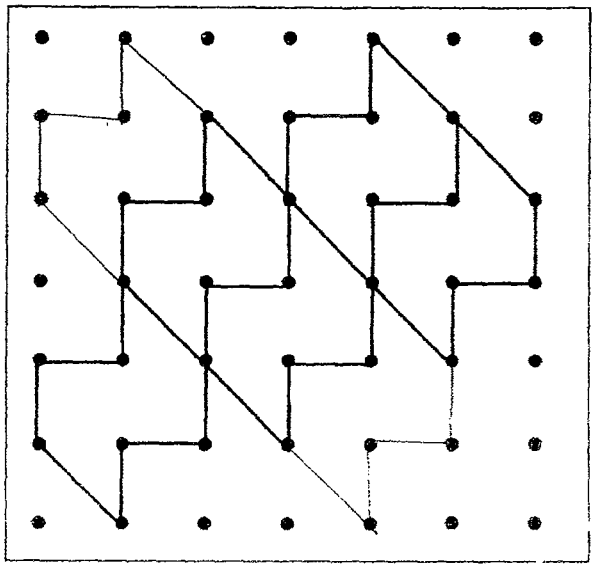
25. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing **two** more unit shapes in the space provided in the box.



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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)

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.

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26. A notebook cost \$14 more than a pen. Mina paid \$52 for 3 notebooks and 2 pens. How much did each notebook cost?

Ans: \$ _____

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27. A pail has a mass of 5.6 kg when it is filled with sand. The same pail has a mass of 3.1 kg when it is half-filled with sand. Find the mass of this pail when it is empty.

Ans: _____

(Go on to the next page)

28. Felicia spent $\frac{1}{3}$ of her money on a bag and $\frac{1}{5}$ of the remainder on a necklace. She had $320 left after she had bought the bag and the necklace. How much money did she have at first?

Do not write in this space

Ans: $_____

29. Observe the number pattern in Figure A and Figure B. What is the missing number in Figure C?

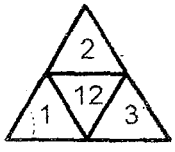

Figure A

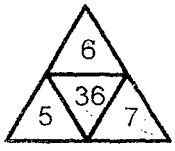

Figure B

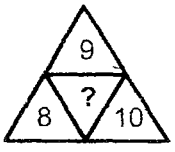

Figure C

Ans: _____

(Go on to the next page)

30. In the square grid, line BC has been drawn.

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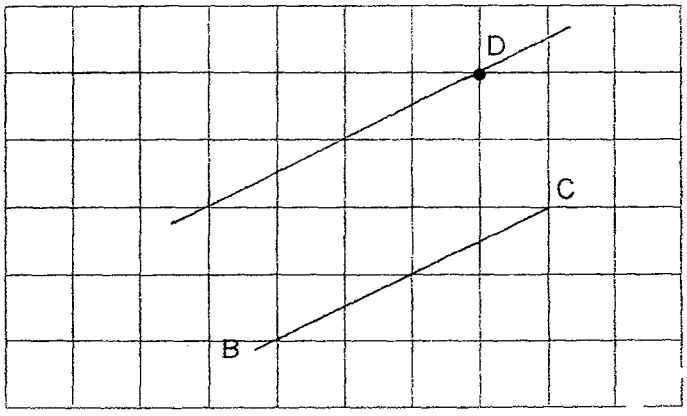
(a) Measure the length of BC. Round off your answer to the nearest whole number.

(b) Draw a line parallel to BC through point D in the square grid below.



Ans (a): _____ cm

End of paper.
Have you checked your work?

(Go on to the next page)

First Semestral Assessment 2016
Primary 5 Mathematics

Date: 10th May 2016

Time: 1 h 40 min

PAPER 2

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)

All diagrams in this paper are not drawn to scale unless stated otherwise.

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1. Oliver planned to complete reading his book in $2\frac{1}{5}$ h. He completed reading his book in $3\frac{1}{3}$ h instead. How much more time did he take to complete reading his book? Give your answer as a fraction in the simplest form.

Ans: _____ h

2. 2 shirts cost as much as 5 caps. Andy bought 3 shirts and 10 caps for $224. How much is the cost of 8 shirts and 8 caps?

Ans: $ _____

(Go on to the next page)

3. The average number of marbles in Box A, Box B and Box C is 37. Box A has 33 marbles. The number of marbles in Box B is twice the number of marbles in Box C. What is the number of marbles in Box C?

Do not write in this space

Ans: _____

4. Alex, Ben and Carl collected 302 bookmarks. Alex had 18 more bookmarks than Ben. Carl had 3 times as many bookmarks as Alex. How many bookmarks did Carl collect?

Ans: _____

(Go on to the next page)

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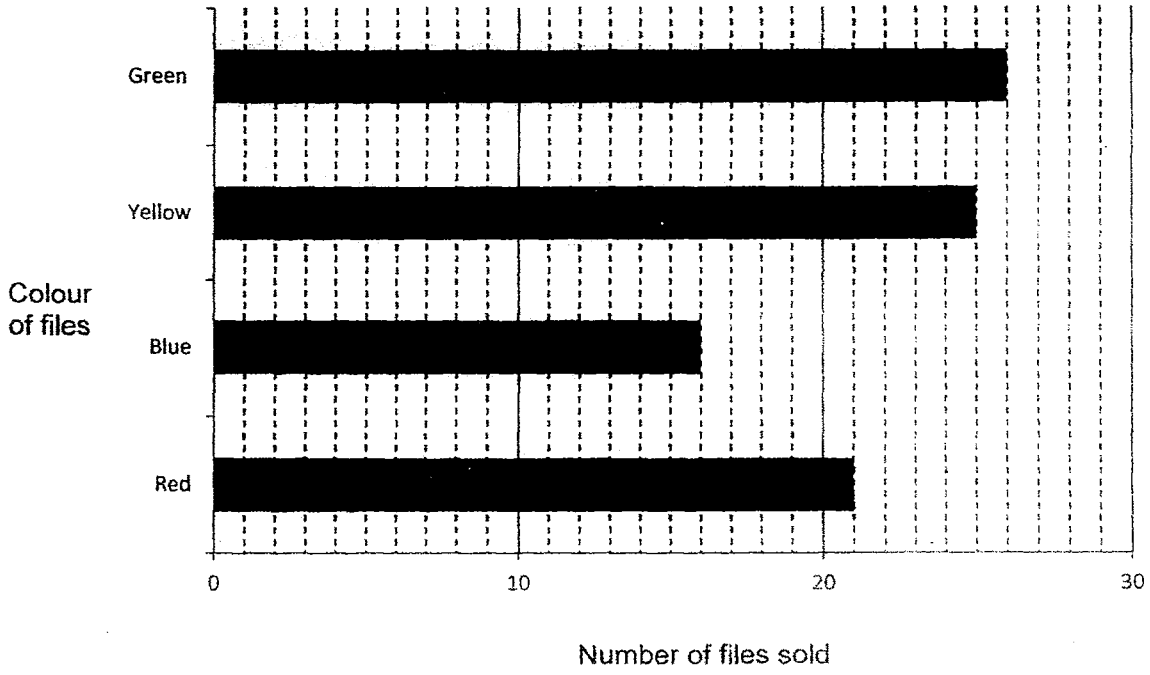
5. The bar graph below shows the number of files sold by a bookshop on a Friday.



Colour of file	Price per file
Red	$1.25
Blue	$2.75
Yellow	$0.95
Green	$1.60

(a) Which coloured file did the shop collect the most money from the sale?
(b) What was the amount of money?

Ans: (a)_____

(b) $_____

(Go on to the next page)

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. For questions which require units, give your answers in the units stated.

(50 marks)

All diagrams in this paper are not drawn to scale unless stated otherwise.

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6. Hamid has $\frac{3}{5}$ as many erasers as Devi and $\frac{2}{3}$ as many erasers as Felicia. They have a total of 150 erasers. How many erasers does Felicia have?

Ans. _____ [3]

7. Tom had $\frac{7}{8}$ kg of flour. He used $\frac{2}{3}$ of the flour to bake a cake. What was the mass of flour left?

Ans: _____ [3]

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8. The figure below is made up of 2 triangles, NJM and KLM. Find the area of the shaded part in the figure below.

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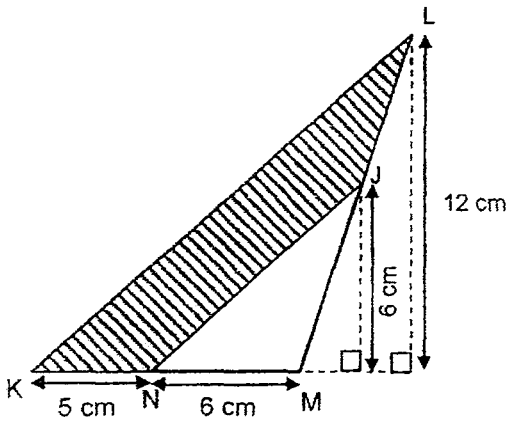


Ans: _____ [3]

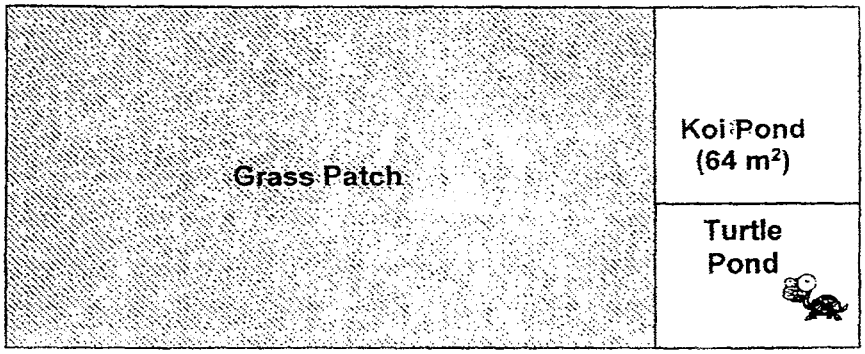
9. The average number of pencils in each box was 22. After four such boxes were removed, all the pencils were re-distributed. The average number of pencils in each box became 24. What was the total number of pencils in all the boxes at first?

Ans: _____ [3]

(Go on to the next page)

10. The figure below shows a garden in the school with two ponds beside each other. The koi pond is a square pond with an area of 64 m^2. The area of the rectangular turtle pond is $\frac{3}{4}$ of the area of the koi pond. The length of the grass patch is twice the breadth of the grass patch.

(a) What is the breadth of the turtle pond?
(b) What is length of the grass patch?



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Ans: (a) _____ [2]

(b) _____ [1]

(Go on to the next page)

11. Bryán had some bags of sweets and some packets of chocolates. Each bag contained 9 sweets and each packet contained 4 chocolates. The total number of bags of sweets and packets of chocolates that he had was 40. He had 43 more chocolates than sweets. How many ~~packets~~ bags of sweets did Bryan have?

Do not write in this space

Ans: _____ [4]

(Go on to the next page)

12. Fazli and Ginny collected some erasers. If Fazli gave Ginny 52 erasers, both would have an equal number of erasers. If Ginny gave Fazli 40 erasers, Fazli would have 5 times as many erasers as Ginny. How many erasers did each one of them have?

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in this spac

Ans: Fazli: _____

Ginny: _____ [4]

(Go on to the next page)

13. The table below shows the charges for printing at a printing company.

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	A4-size paper	A3-size paper
Basic printing charge	\$40 for every order	\$50 for every order
Quantity	Cost per piece	Cost per piece
1 to 49	\$0.60	\$0.80
50 to 99	\$0.55	\$0.75
100 to 499	\$0.50	\$0.70

(a) Siling wants to place an order to print 380 A4-size copies of her poster. How much does she need to pay?

(b) Roland placed an order to print some A4-size copies of his poster. Ahmad placed an order to print some A3-size copies of his poster. Both of them ordered an equal number of copies of their posters. The total cost of their orders was \$324. How many A4-size copies of the poster did Roland print?

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

14. At first, all the apples were placed in 40 boxes with an equal number of apples in each box. 4 boxes were removed and the number of apples in these boxes were put in the remaining 36 boxes. In the end, the number of apples in each remaining box increased by 3. What was the number of apples in each box at first?

Do not write in this space

Ans: _____ [4]

(Go on to the next page)

15. $\frac{3}{8}$ of the boys in a competition is equal to $\frac{4}{5}$ of the girls.
There are 255 more boys than girls in the competition.
How many pupils are there in the competition?

Do not write in this space

Ans: _____ [4]

(Go on to the next page)

16. Carol tied some ribbons along a rope in a row at equal distance apart. The distance between the first and the fifth ribbon was 8 m. The first ribbon and the last ribbon were tied 3 m away from each end of the rope. What was the length of the rope if she had tied 30 ribbons on it?

Do not write in this space

Ans: _____ [5]

(Go on to the next page)

17. The table below shows the prices of tickets for a concert performance for an adult ticket and a child ticket.

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	Price per ticket
Adult	$22
Child	$8

$\frac{1}{4}$ of the tickets sold were for adults. The total amount of money collected from sale of the child tickets was $230 more than the total amount collected from the sale of adult tickets.

(a) How many child tickets were sold?
(b) How much money was collected from the sale of all the tickets?

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

18. Mary spent \$1 560 to buy some boxes of chocolate and almond cookies. Each box of chocolate cookies cost \$22 and each box of almond cookies cost \$25. The chocolate cookies were packed in boxes of 12 cookies each and the almond cookies were packed in boxes of 10 cookies each. She bought an equal number of chocolate cookies and almond cookies. She bought a total of less than ~~200~~ 300 cookies.

(a) How many boxes of chocolate cookies did she buy?

(b) How many boxes of almond cookies did she buy?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

ANSWER KEY

YEAR : 2016
LEVEL : PRIMARY 5
SCHOOL : ROSYTH
SUBJECT : MATHEMATICS
TERM : SA1

Paper 1

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

Q16 10

Q17 35 400

Q18 1489.03

Q19 20.4 kg

Q20 $\frac{2}{5}$

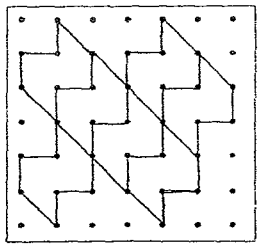
Q21 $\frac{1}{16}$

Q22 $14

Q23 40 cm

Q24 Q, R, P

Q25



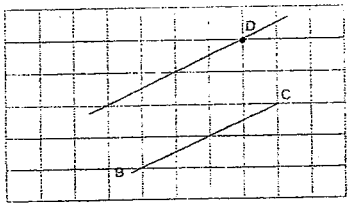
Q26 14 x 3 = 42
52 – 42 = 10
10 ÷ 5 = 2
2 + 14 ⇒ $16

Q27 3.1 x 2 = 6.2
6.2 – 5.6 ⇒ <u>0.6 kg</u>

Q28 $600

Q29 27 x 2 ⇒ <u>54</u>

Q30a



Q30b 5 cm

<u>Paper 2</u>

Q1 $1\frac{2}{15}$

Q2
2S → 5C
7S → 224
1S → 224 ÷ 7 = 32
3S → 32 x 3 = 96
10C → 224 – 96 = 128
1C → 128 ÷ 10 = 12.80
8S + 8C → (32 x 8) + (12.80 x 8) ⇒ <u>$358.40</u>

Q3
Total marbles → 37 x 3 = 111
Box C → 111 – 33 = 78
78 ÷ 3 ⇒ <u>26 marbles</u>

Q4
1u → 302 – (18 x 4) = 230
230 ÷ 5 = 46
(46 x 3) + (18 x 3) ⇒ <u>192 bookmarks</u>

Q5a Blue

Q5b $44

Q6
150 ÷ 25 = 6
6 x 9 ⇒ <u>54 erasers</u>

Q7 $\frac{7}{24}$ kg

Q8 48 cm^2

Q9
Pencil removed → 4 x 22 = 88
Change in avg → 24 – 22 = 2
No. of box → 88 ÷ 2 = 44
Total no. → 44 x 22 + 88 ⇒ 1056 pencils

Q10a
64 ÷ 4 = 16
16 x 3 = 48
48 ÷ 8 ⇒ 6 m

Q10b
14 x 2 ⇒ 28 m

Q11
Assume all are chocolates: 40 x 4 = 160
Diff → 43
160 – 433 = 117
1 set → 4 + 9 = 13
No. of bag → 117 ÷ 13 ⇒ 9 packets

Q12
4u → 40 + 52 + 52 + 40 = 184
1u → 184 ÷ 4 = 46
Fazil → 46 + 40 + 52 + 52 ⇒ 190 erasers
Ginny → 46 + 40 ⇒ 86 erasers

Q13a
1 piece → 0.50
380 pieces → 0.50 x 380 = 190
190 + 40 ⇒ $230

Q13b
324 – 90 = 234
1 set → 0.50 + 0.70 = 1.20
2 sets → 234 ÷ 1.20 ⇒ 195 copies

Q14
4 boxes → 36 x 3 = 108
1 box → 108 ÷ 4 ⇒ 27 apples

Q15
Boys $\frac{3x4}{8x4}$ = Girls $\frac{4x3}{5x3}$
Boys $\frac{12}{32} \rightarrow \frac{12}{15}$
32u – 15u = 17u
17u → 255
1u → 255 ÷ 17 = 15
Total → 32 + 15 = 47
47u → 15 x 47 ⇒ 705 pupils

Q16 5 ribbons → 4 gaps
4 gaps → 8 m
1 gap → 8 ÷ 4 = 2
30 ribbons → 29 gaps
2 x 29 → 58
Total → 3 + 58 + 3 ⇒ <u>64 m</u>

Q17a Adult → $\frac{1}{4}$ Child $\frac{3}{4}$
Difference → 24 – 22 = 2
230 ÷ 2 = 115
115 x 3 ⇒ <u>345 child tickets sold</u>

Q17b 115 x 46 ⇒ <u>$5290</u>

Q18a 1 set → (5 x 22) + (25 x 6) = 260
No. of set → 1560 ÷ 260 = 6
No. of chocolate cookies → 6 x 5 ⇒ <u>30 boxes</u>

Q18b No. of almond cookies → 6 x 6 ⇒ <u>36 boxes</u>

END