PRIMARY 5 END-OF-YEAR EXAMINATION 2015

Name : _____( ) Date: 29 October 2015

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. What is the value of the digit 7 in 8 763 015 ?

   (1) 7 000
   (2) 70 000
   (3) 700 000
   (4) 7 000 000

2. How many quarters are there in $2\frac{3}{4}$?

   (1) 9
   (2) 10
   (3) 3
   (4) 11

3. Round off 987 564 to the nearest ten thousands.

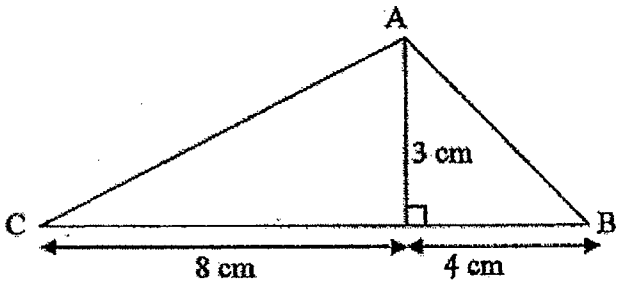
   (1) 980 000
   (2) 987 000
   (3) 990 000
   (4) 997 000

4. Express 1.5 as a percentage.

(1) 0.15%
(2) 1.5%
(3) 15%
(4) 150%

5. What is the area of triangle ABC as shown in the figure?

(1) 6 cm^2
(2) 12 cm^2
(3) 18 cm^2
(4) 36 cm^2



6. Which of the following is closest to 1.62?

(1) 1.590
(2) 1.601
(3) 1.609
(4) 1.700

7. Find the value of $\frac{3}{4} + \frac{1}{2} + \frac{5}{6}$.

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

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

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

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

8. Which of the following is the same as 10 kg 18 g?

(1) 1.018 kg
(2) 1.18 kg
(3) 10.018 kg
(4) 10.18 kg

9. In a group of 125 people, 30 are children and the rest are adults. What percentage of the people are adults?

(1) 76%
(2) 95%
(3) 24%
(4) 30%

10. A basket contains 24 ripe and unripe mangoes. Which one of the following can be the ratio of the number of ripe mangoes to the number of unripe mangoes?

(1) 1 : 5
(2) 2 : 3
(3) 5 : 2
(4) 4 : 7

11. The ratio of the number of apples to the number of pears is 2 : 5. The ratio of the number of pears to the total number of oranges is 3 : 2. There are 48 apples. How many ~~apples~~ oranges are there?

(1) 6
(2) 36
(3) 48
(4) 80

12. Study the number pattern below. What is the missing number?

2 500 , 2 600 , 2 800 , 3 200 , _____ , 5 600

(1) 3 600
(2) 3 800
(3) 4 000
(4) 4 400

13. Kelly is 6 years old now. Her mother is 30 years older than her. In how many years' time will Kelly's mother be four times as old as Kelly?

(1) 10
(2) 2
(3) 3
(4) 4

14. Mrs Tan wants to use the recipe below to make muffins.

Muffin Recipe
(makes 6 muffins)
200 g flour
150 g butter
100 g sugar

She has 1 kg of flour, 300 g of butter and 600 g of sugar.
What is the **maximum** number of muffins she can make?

(1) 12
(2) 18
(3) 30
(4) 36

15. Pamela can type 2400 words in one hour. How many words can she type in one minute?

(1) 40
(2) 30
(3) 24
(4) 4

PRIMARY 5 END-OF-YEAR EXAMINATION 2015

Name : _____ ( ) Date: 29 October 2015

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. Find the value of 3.14 x 70.

Ans: _____

17. Tim runs for 25 minutes every day. How many hours and minutes does he run in 30 days?

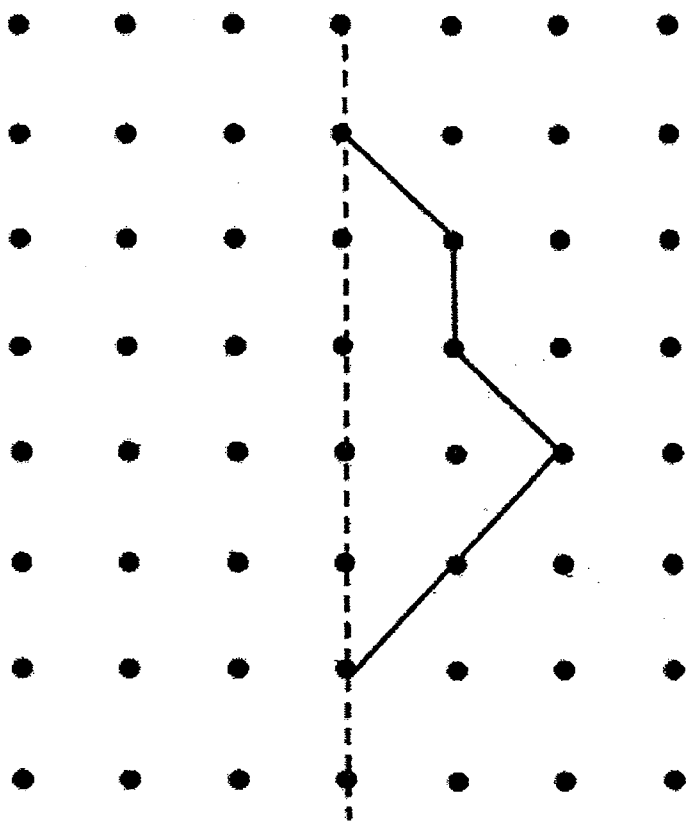
Ans: _____h_____min

18. Find the value of $7\frac{1}{5} - 2\frac{3}{10}$.

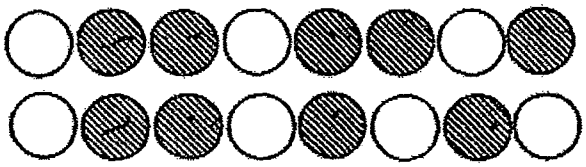
Give your answer as a mixed number in the simplest form.

Ans: _____

19. Complete the symmetrical figure below.



20. How many more circles must be shaded so that 75% of all the circles are shaded?



Ans: _____

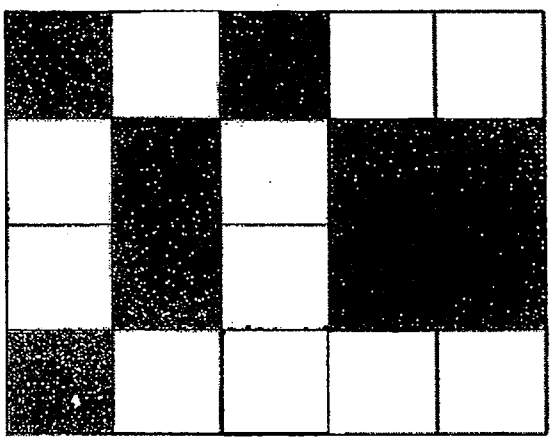
21. Find the sum of the 15 tenths and 83 hundredths.

Ans: _____

22. Mr Chew planted 10 seedlings in a row. The seedlings were planted at the same distance apart. The distance between the first and sixth seedlings was 30 cm. What was the distance between the first and tenth seedlings?

Ans: _____ cm

23. The figure below is made up of squares.
Shade **one** more square so that the figure has a line of symmetry.



24. The weight of 3 boxes A, B and C are 5.6 kg, 7.1 kg and 6.6 kg respectively.
Which box has its weight closest to the average weight?

Ans: Box _____

25. Betty used the letters in her name B, E, T and Y to form a pattern as shown below. Which letter is in the 67th position?

B E T T Y B E T T Y B E T T Y B E .....?
1st 17th 67th

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. There are 24 people in the dance studio. 12 of them are wearing shoes and 8 of them are wearing socks. 6 of them are wearing both. How many people are barefooted?

Ans: _____

27. Study the series of even numbers.
What is the sum of the first 30 even numbers?

2 , 4 , 6 , 8 , 10 , 12 , ...

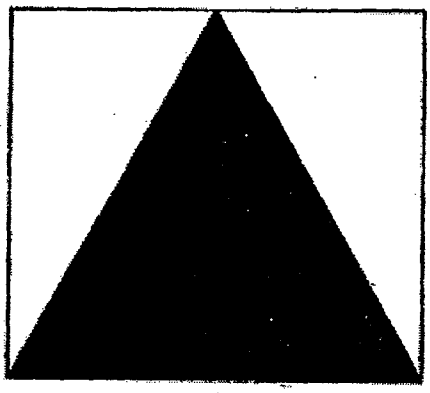
1^{st} 30^{th}

Ans: _____

28. Jack, Keith and Leon shared some trading cards in the ratio of 2 : 4 : 3 respectively. Jack gave $\frac{1}{3}$ of his share to Leon. Find the ratio of Jack's trading cards to Keith's trading cards to Leon's trading cards.

Ans: _____

29. The figure is made up of a square and a shaded triangle. The triangle has an area of 50 cm^2. Find the perimeter of the square.



Ans: _____ cm

30. The table below shows the number of ceiling fans per flat in a housing estate.

Number of ceiling fans per flat	0	1	2	3
Number of flats	6	30	26	13

How many flats have at least 2 ceiling fans?

-End of Paper-

PRIMARY 5 END-OF-YEAR EXAMINATION 2015

Name :_____( ) Date: 29 October 2015

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

Parent's Signature :

MATHEMATICS

PAPER 2

/ 60

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
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. Pam had an allowance of $60. She spent 40% of it and saved the rest. How much did she save?

Ans: $_____

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2. Last year, there were 400 members in a club. This year, the membership has increased by 100. Find the percentage increase in the membership.

Ans: _____

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3. The mass of a packet of flour is 500 g. Sheila needs 10.05 kg of flour to bake some cookies. What is the minimum number of packets of flour she will need?

Ans: _____

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4. The carpark rates at XYZ Shopping Mall is as follows:

For every 1st hour	$3
Additional ½ hour or part thereof	$1.50

How much does Mr Chan have to pay when he parks his car from 9 a.m. to 11.45 a.m.?

Ans: _____

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5. The table below shows the number of candidates taking Grade 1 to Grade 4 of the ballet examination. $\frac{5}{6}$ of the candidates passed the examination. How many candidates passed the Grade 4 examination?

Grade	1	2	3	4
Number of candidates taking the examination	28	23	14	7
Number of candidates who passed the examination	27	21	10	?

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. Calvin and Dan started saving on the same day. Each day, Calvin saved 50¢ and Dan saved 20¢. How much would Calvin have saved if Dan saved $18 less than Calvin?

Ans: _____ [3]

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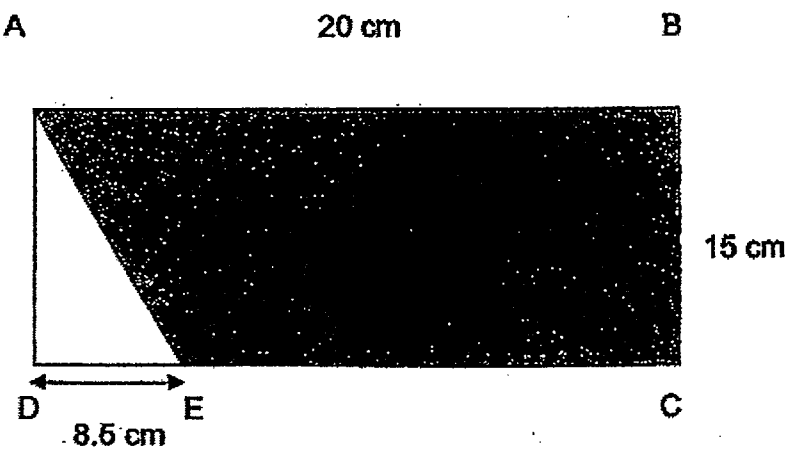
7. ABCD is a rectangle 20 cm by 15 cm. DE is 8.5 cm. Find the shaded area ABCE.



Ans: _____ [3]

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8. Alicia and Beatrice have some postcards in the ratio 6 : 7. Alicia gave half of her postcards to Beatrice. Beatrice then had 742 postcards more than Alicia. How many postcards did they have altogether?

Ans: _____ [3]

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9. The books in a library were placed on 50 shelves with an equal number of books on each shelf. Then 5 shelves were removed and the books on these shelves were placed on the remaining 45 shelves. As a result, the number of books on each of the remaining shelf increased by 7. What was the number of books on each shelf at first?

Ans: _____ [3]

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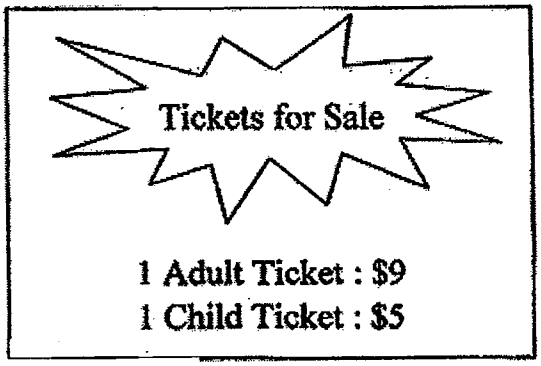
10. A company sold a total of 368 Adult and Child tickets at the prices shown below and collected $2 760. How many Adult tickets did the company sell?



Ans: _____ [3]

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11. A container filled with 30 identical big marbles weighs 1.1 kg. The same container when filled with 40 identical small marbles weighs 800g. The mass of two small marbles is the same as the mass of each big marble. What is the mass of the empty container? (Give your answer in grams)

Ans: _____ [3]

12. At a party, an equal number of chocolate and blueberry muffins were eaten.

$\frac{1}{3}$ of the chocolate muffins and $\frac{2}{7}$ of the blueberry muffins were left.

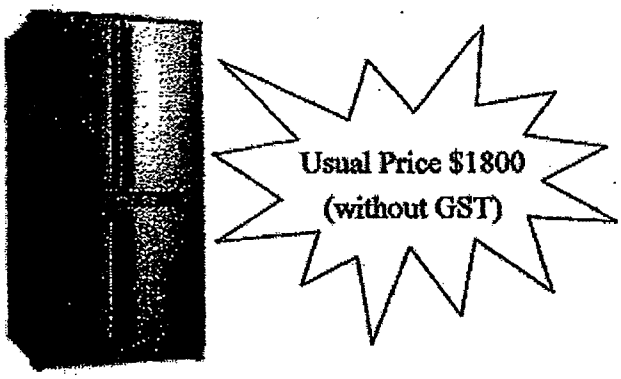
What fraction of the muffins were eaten?

Ans: _____ [4]

13. During a sale, Mrs Tai bought a refrigerator at a discount of 15%.
She had to pay a GST of 7% on the sale price.

a) How much was the GST?

b) How much did she pay?



Ans: (a) _____ [3]

(b) _____ [1]

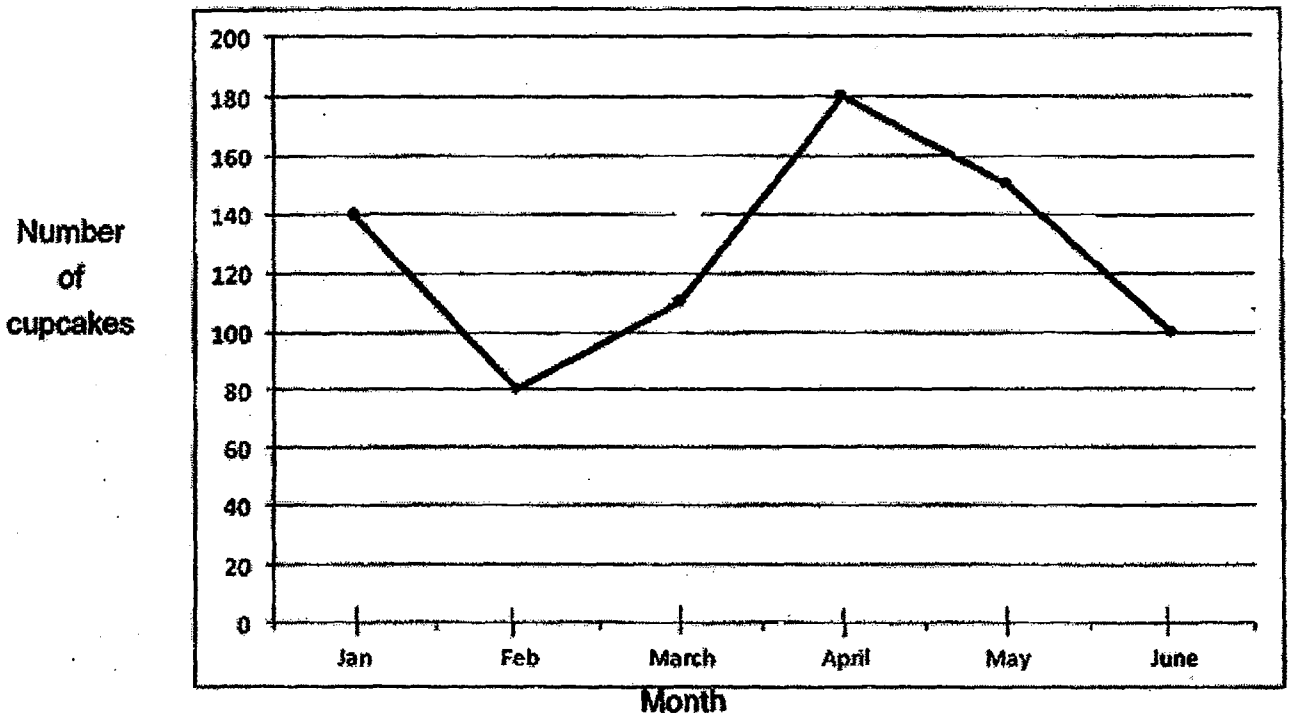
14. Jane has 8 times as many stamps as May. After Jane has given 25 stamps to May, she has thrice as many stamps as May. How many stamps do they have altogether?

Ans: _____ [4]

15. Mrs Lee sells one apple pie for $2. When a customer buys 3 apple pies, he can buy one more apple pie at half the price. What is the **greatest** number of apple pies that a customer can buy with $60?

Ans:_____ [5]

16. The graph below shows the number of cupcakes sold by ABC Bakery over a period of 6 months.



a) The greatest decrease in the number of cupcakes sold was from _____ to _____.

b) Find the average number of cupcakes sold for the first 5 months.

c) The number of cupcakes sold in the month of July was $\frac{2}{5}$ the total number of cupcakes sold in April and June. The price of each cupcake was $2.50. How much was collected from the cupcakes sold in July?

Ans: (a)_____[1]

(b) _____[2]

(c) _____[2]

17. Adam, Bob, Carl and David like to collect stickers. They have an average of 89 stickers. Adam has 78 stickers. Bob has half as many stickers as Carl. David has 16 stickers fewer than the total number of stickers that Bob and Carl have.

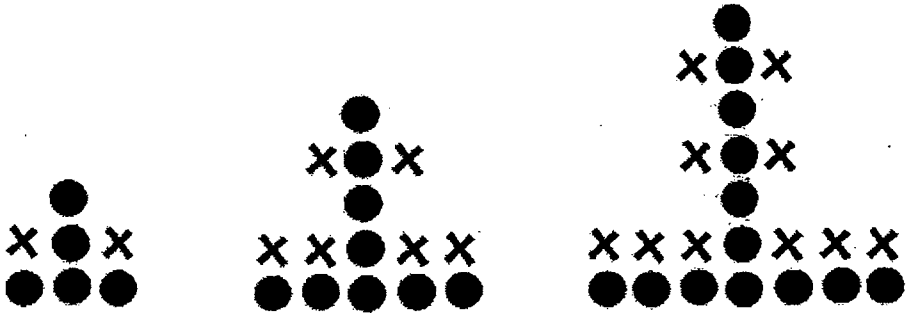
(a) How many stickers does Bob have?

(b) How many stickers does David have?

Ans: a) _____ [3]

b) _____ [2]

18. Study the pattern carefully. Then answer the questions below.



Pattern 1 Pattern 2 Pattern 3

(a) How many dots and how many crosses are there in Pattern 9?

(b) Which Pattern will have 281 dots?

Pattern	Number of Dots	Number of Crosses
1	5	2
2	9	6
3	13	10
4	17	14
. . .		
9	?	?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

Answer Key

SCHOOL : TAO NAN PRIMARY
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : SA2

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	3	4	3	2	4	3	1	1

Q 11	Q12	Q13	Q14	Q15
4	3	4	1	1

PAPER 1 BOOKLET B

Q16) 219.8

Q17) 12 h 30 min

Q18) 4 9/10

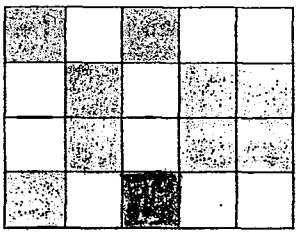
Q19) -

Q20) 3

Q21) 2.33

Q22) 54

Q23)



Q24) C

Q25) E

Q26) 10

Q27) 930

Q28) 4 : 12 : 11

Q29) 40

Q30) 39

PAPER 2

Q1)	40% x $60 = $24 $60 - $24 = $\underline{\$36}$
Q2)	100/400 x 100% = $\underline{25\%}$
Q3)	10.5 kg = 10.05 x 1000g = 10050 g 10050 g ÷ 500g = 20 R5 20 + 1 = $\underline{21}$
Q4)	$3.00 + ($1.50 x 4) = $\underline{\$9.00}$
Q5)	28 + 23 + 14 + 7 = 72 5/6 x 72 = 60 60 – (27 + 21 + 10) = $\underline{2}$
Q6)	$0.50 - $0.20 = $ 0.30 $18.00 ÷ $0.30 = 60 60 x $0.50 = $\underline{\$30.00}$
Q7)	Area of rect ABCD → 20 cm x 15 cm = 300 cm^2 Area of triangle ADE → ½ x 8.5 cm x 15 cm = 63.75 cm^2

Area of shaded → 300 cm^2 – 63.75 cm^2 = 236.25 cm^2

Q8)

	A	:	B	:	Total
At first →	6	:	7	:	13
End →	3	:	10	:	13

10u – 3u = 7u

7u → 742

1u → 742 ÷ 7 = 106

13u → 106 x 13 = 1378

Q9)

No. of books on 5 shelves at first → 7 x 45 = 315

No. of books on 1 shelf at first → 315 ÷ 5 = 63

Q10)

No. of Adult Tickets	Amount of money Collected from Adult Tickets	No. of Children Tickets	Amount of money Collected from Children's Tickets	Total Amount Collected	$2760?
200	$1800	168	$840	$2640	X
210	$1890	158	$790	$2680	X
240	$2160	128	$640	$2800	X
230	$2070	138	$690	$2760	√

Ans : 230

Q11)

10 identical big marbles → 1.1 kg – 800 g = 0.3 kg

30 identical big marbles → 0.3 kg x 3 = 0.9 kg

1.1 kg – 0.9 kg = 0.2 kg

= 200 g

Q12)

2/3 = 10/15

5/7 = 10/14

15 + 14 = 29

10 + 10 = 20

	Ans : 20/29
Q13)	(a) 85/100 x $1800 = $1530 7% x $1530 = $107.10 (b) $1530 + $107.10 = $1637.10
Q14)	J : M : Total At first : 8 : 1 : 9 32 : 4 : 36 End : 3 : 1 : 4 27 : 9 : 36 32u – 27u = 5u 5u → 25 1u → 5 36u → 5 x 36 = 180
Q15)	$2 ÷ 2 = $1 $2 x 3 = $6 $6 + $1 = $7 $60 ÷ $7 = 8 R 4 $4 ÷ $2 = 2 (4 x 8) + 2 = 34
Q16)	(a) January to February (b) 140 + 80 + 110 + 180 + 150 = 660 660 ÷ 5 = 132 (c) 180 + 120 = 300 2/5 x 300 = 120

	120 x $2.50 = $300
Q17)	(a) 89 x 4 = 350 356 - 78 = 278 6u → 278 + 16 = 294 1u → 294 ÷ 6 = 49 (b) 3u → 294 ÷ 2 = 147 147 – 16 = 131
Q18)	(c) 17 + (4x5) = 37 14 + (4x5) = 34 Ans : 37 dots, 34 crosses (d) 281 – 5 = 276 276 ÷ 4 = 69 69 + 1 = 70 Ans : Pattern 70