28

慈学校

RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2016 SEMESTRAL ASSESSMENT 2

MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 5 / _____

Date : 26 October 2016

BOOKLET A

15 Questions
20 Marks
Duration of Paper 1 (Booklets A & B): 50 minutes

Note:

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   (a) Page 1 to Page 5
   (b) Questions 1 to 15
6. You are not allowed to use a calculator.

Downloaded from SingaKids.com

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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

---

1 Round off 606 606 to the nearest ten thousand.

(1) 600 000
(2) 606 000
(3) 607 000
(4) 610 000

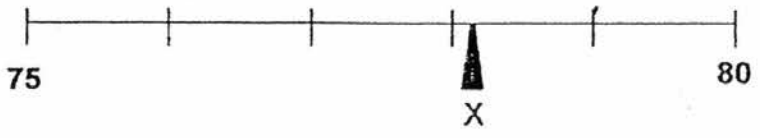
2 Which one of the following fractions is the same as 10 eighths?

(1) $1\frac{1}{4}$
(2) $1\frac{1}{2}$
(3) $8\frac{1}{10}$
(4) $10\frac{1}{8}$

3 What is the value of 579 ÷ 100?

(1) 0.579
(2) 5.79
(3) 57.9
(4) 57 900

4 In the number line shown below, which value is closest to the letter X?



(1) 77.2
(2) 77.7
(3) 78.2
(4) 78.7

Downloaded from SingaKids.com

5 Dominic's height is 160 cm. His sister is 20 cm shorter than him. Find the ratio of Dominic's height to his sister's height.

(1) 1 : 8
(2) 8 : 1
(3) 7 : 8
(4) 8 : 7

6 24 out of 40 students like chicken burger while the rest of them like fish burger. Find the percentage of students who like fish burger.

(1) 16%
(2) 24%
(3) 40%
(4) 60%

7 Which of the following is the same as 6 090 g?

(1) 6 kg 9 g
(2) 6 kg 90 g
(3) 60 kg 9 g
(4) 60 kg 90 g

8 What is the difference between 14 tens and 14 tenths?

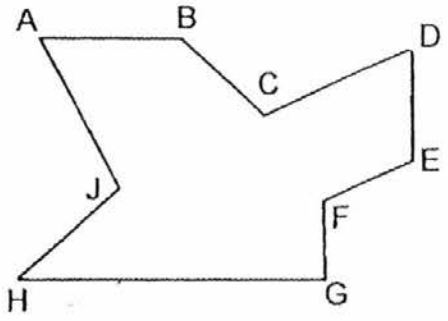
(1) 12.7
(2) 13.86
(3) 138.6
(4) 139.86

9 What is the cost of 9 ten-cent stamps and 3 fifty-cent stamps?

(1) $1.20
(2) $2.40
(3) $3.20
(4) $4.40

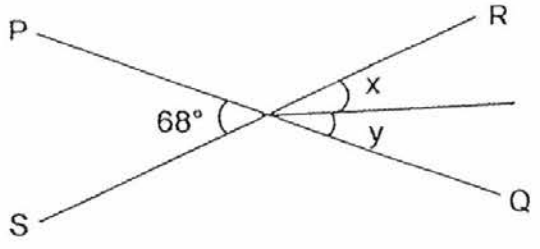
Downloaded from SingaKids.com

10 How many pair(s) of parallel lines are there in the figure below?



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

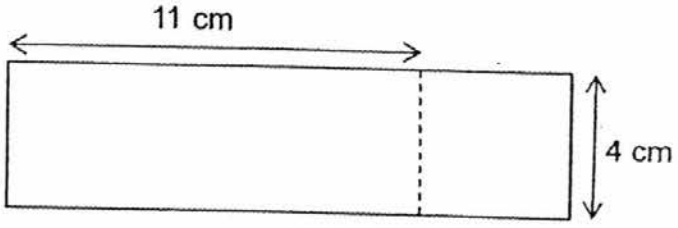
11 In the figure, PQ and RS are straight lines. $\angle x$ and $\angle y$ are equal. Find $\angle x$.



(1) 11°
(2) 22°
(3) 34°
(4) 68°

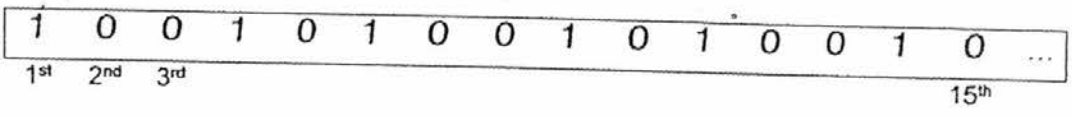
Downloaded from SingaKids.com

12 The figure below is made up of a square and a rectangle. Find its perimeter.



(1) 15 cm
(2) 38 cm
(3) 42 cm
(4) 46 cm

13 A pattern is formed using the numbers 1 and 0. The first 15 numbers are shown below.

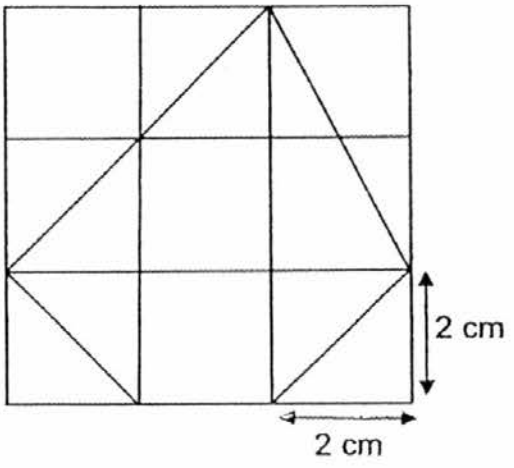


What is the sum of the first 100 numbers?

(1) 39
(2) 40
(3) 41
(4) 42

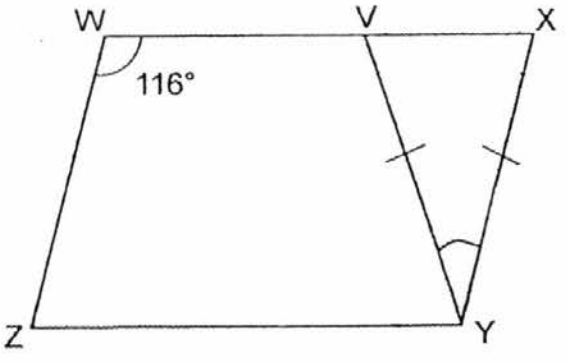
Downloaded from SingaKids.com

14 Find the shaded area in the square grid below.



(1) 16 cm^2
(2) 18 cm^2
(3) 20 cm^2
(4) 24 cm^2

15 The figure below is not drawn to scale. WXYZ is a parallelogram. Find $\angle XYV$.



(1) 26°
(2) 52°
(3) 64°
(4) 84°

Downloaded from SingaKids.com

RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2016 SEMESTRAL ASSESSMENT 2

MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 5 / _____

Date : 26 October 2016

BOOKLET B

15 Questions
20 Marks

In this booklet, you should have the following:
(a) Page 6 to Page 11
(b) Questions 16 to 30

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		20
TOTAL		40

Parent's Signature : _____

Downloaded from SingaKids.com

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 What is the value of $30 - 3 \times 4 + 24 \div 4$?

Ans: _____

17 Mrs Tan had a ribbon of 6m long. She cut it 5 times into smaller pieces of equal length to wrap a present. What was the length of one smaller piece of the ribbon?



Ans: _____ m

18 Find the missing number in the box.

$0.396 = 0.3 + \boxed{?} + 0.026$

Ans: _____

19 Find the value of $9.94 \div 20$.

Ans: _____

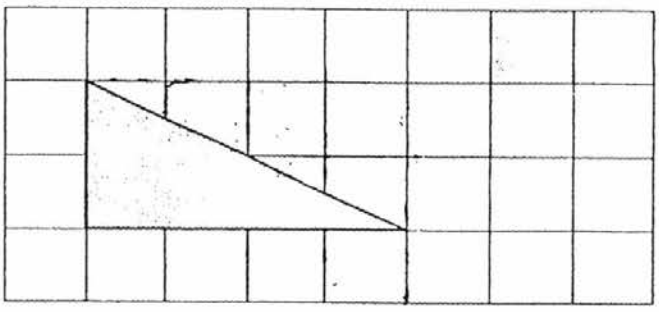
Downloaded from SingaKids.com

20 Jason took 1 hour 25 minutes to travel from school to his house. If he arrived home at 3.30 p.m., what time did he leave the school?

Ans: _____ p.m.

---

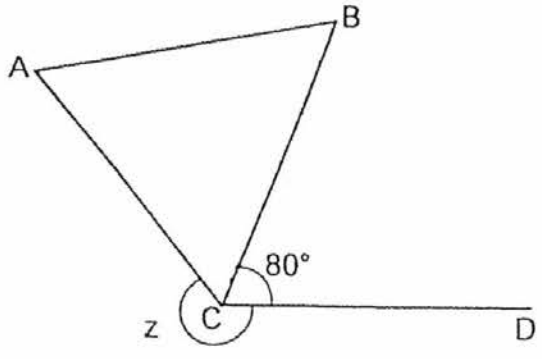
21 The area of the shaded square is 16 cm^2. What is the area of the shaded triangle?



Ans: _____ cm^2

---

22 In the figure below, ABC is an equilateral triangle and $\angle BCD = 80°$. Find $\angle z$.



Ans: _____

Downloaded from SingaKids.com

23 Mary mixed 1 bottle of orange juice, 2 cans of soda water and 2 packets of pineapple juice to create her fruit punch for her birthday party. What was the total volume of the fruit punch in litres?



Orange juice
1.5 ℓ



Soda water
325 m ℓ

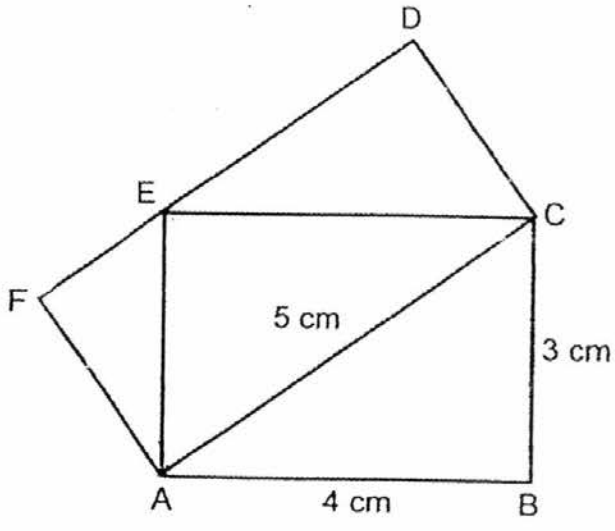


Pineapple juice
750 cm^3

Ans: _____ ℓ

---

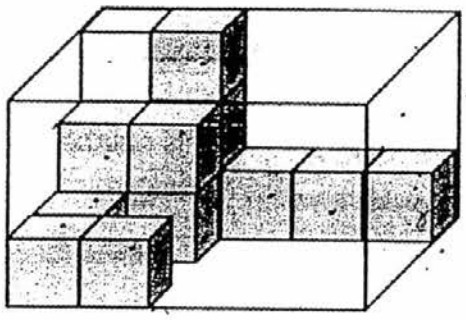
24 In the figure below, ABCE and ACDF are rectangles and DEF is a straight line. AB = 4 cm, BC = 3 cm and AC = 5 cm. Find the length of AF.



Ans: _____ cm

Downloaded from SingaKids.com

25 The figure shows a rectangular container partly filled with unit cubes. How many more cubes are needed to fill the container completely?



Ans: _____

Downloaded from SingaKids.com

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)

---

26 $\frac{2}{5}$ of a number is 76. What is $\frac{1}{2}$ of this number?

Ans: _____

---

27 What is the price of the water bottle after adding 7% GST?



$12
(Price before GST)

Ans: $ _____

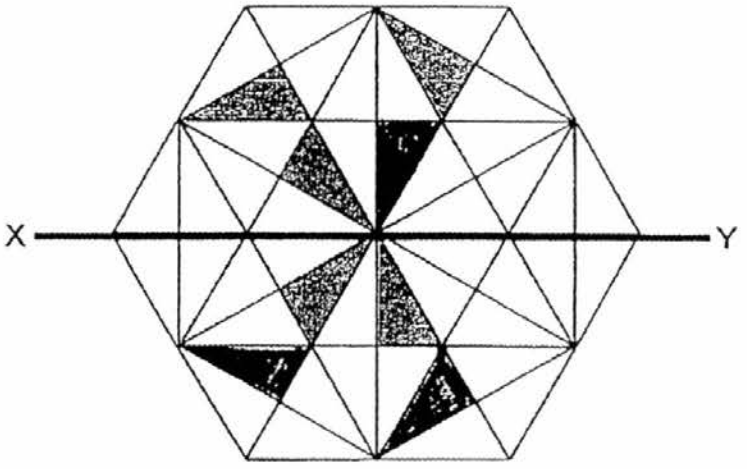
---

28 The sum of 4 numbers is 1 390. One of the numbers is 400. What is the average of the remaining numbers?

Ans: _____

Downloaded from SingaKids.com

29 The figure below is made up of triangles. Five of them are shaded. Shade three more triangles so that XY is the line of symmetry of the figure.



---

30 Figure X is made up of nine similar equilateral triangles. Three triangles were removed from Figure X and the remaining triangles were rearranged to form Figure Y. The perimeter of Figure X is 270 cm. What is the perimeter of Figure Y?

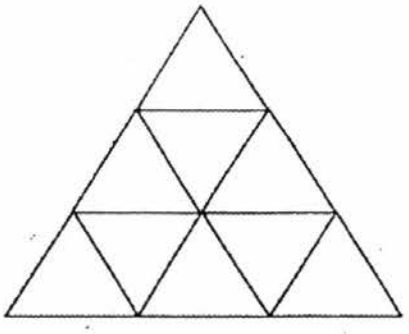


Figure X

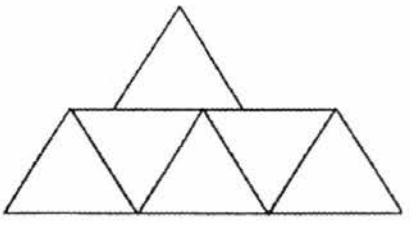


Figure Y

Ans: _____ cm

END OF PAPER 1

Downloaded from SingaKids.com

RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2016 SEMESTRAL ASSESSMENT 2

MATHEMATICS
PAPER 2

Name : _____ ( )

Class : Primary 5 / _____

Date : 26 October 2016

18 Questions
60 Marks
Duration of Paper 2: 1 hour 40 minutes

Note:
1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this paper, you should have the following:
   (a) Page 1 to Page 14
   (b) Questions 1 to 18
6. You are allowed to use a calculator.

MARKS

	OBTAINED	POSSIBLE
PAPER 1		40
PAPER 2		60
TOTAL		100

Parent's Signature : _____

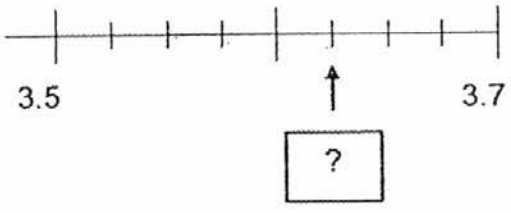
Downloaded from SingaKids.com

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

1 Muthu spent $\frac{1}{3}$ of his savings on a pair of soccer boots and $\frac{1}{4}$ of the remainder on a jersey. If he spent \$49.90 on his jersey, what was his savings?

Ans: \$_____

2 Find the missing decimal in the box below.



Ans: _____

4

Downloaded from SingaKids.com

3 The students at a P5 camp are divided equally into Team A and Team B. The ratio of the number of boys to the number of girls in Team A and B are 1 : 2 and 5 : 4 respectively. What is the ratio of the number of boys to the number of girls at the camp?

Ans: _____

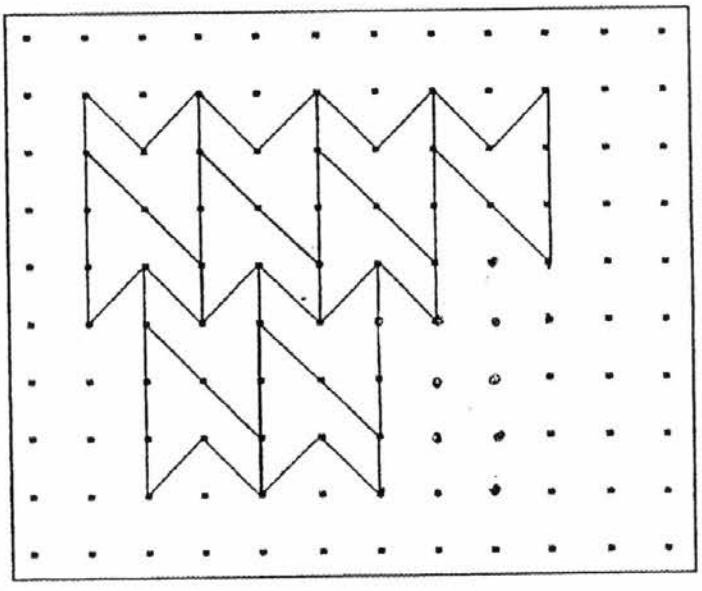
4 Jack was 16 years old two years ago. He is thrice as old as Jill now. Find the total age of Jack and Jill two years from now.

Ans: _____

4

Downloaded from SingaKids.com

5 The pattern in the dot paper below shows part of a tessellation. Extend the tessellation by drawing **three more** unit shapes in the space provided in the dot paper.



2

Downloaded from SingaKids.com

For Questions 6 to 18, show your working clearly in the space below 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 Mrs Tan baked a 10-kg cake for a class party. Her students ate $\frac{3}{5}$ of it and she gave $1\frac{3}{5}$ kg to the other teachers. Find the mass of the cake she had left.

Ans: _____ [3]

---

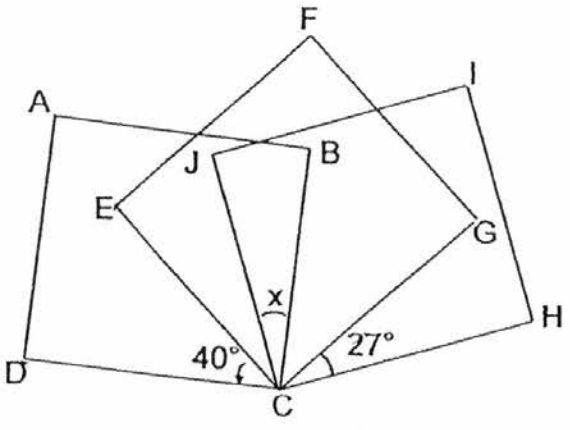
7 William saved two coins every day from Monday to Sunday by putting them into a piggy bank. Each coin was either a 20-¢ or 50-¢ coin. The total value of the coins at the end of 4 weeks was $16.30. How many of the coins were 50-¢ coins?

Ans: _____ [3]

6

Downloaded from SingaKids.com

8 The figure below shows three identical squares ABCD, CEFG and CJIH. $\angle DCE = 40°$ and $\angle GCH = 27°$. Find $\angle x$.



Ans: _____ [3]

---

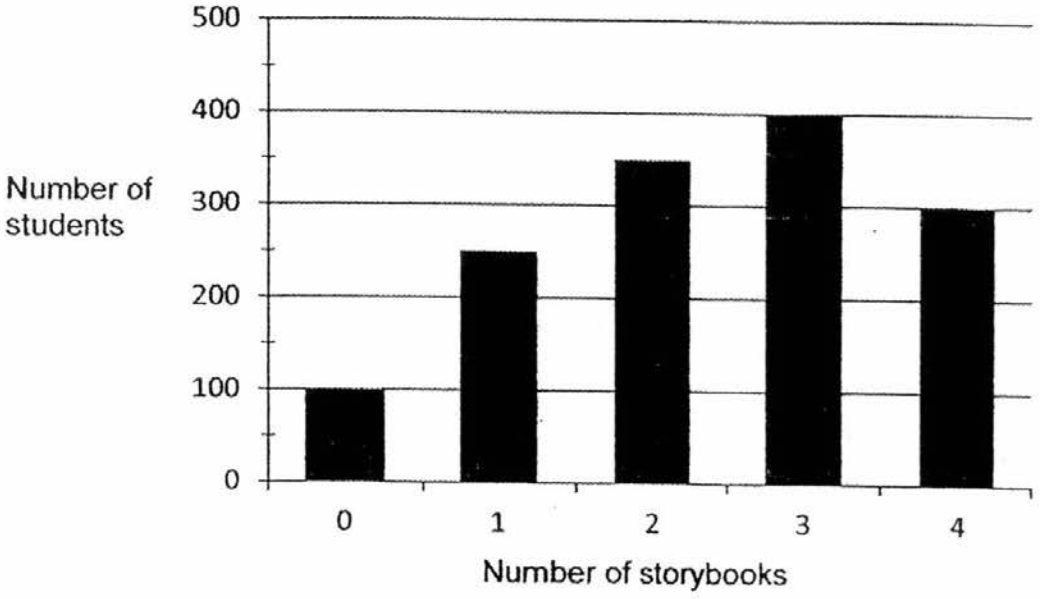
9 The ratio of John's amount of money to Sean's is 7:11. If Sean gives $95 to John, they will have the same amount of money. How much money do they have altogether?

Ans: _____ [3]

6

Downloaded from SingaKids.com

10 The bar graph shows the number of storybooks read by the students in a school.



(a) How many students are there in the school?

(b) What percentage of the students in the school read at least 1 storybook? (Give your answer correct to the nearest whole number.)

Ans: (a) _____ [1]

(b) _____ [2]

3

Downloaded from SingaKids.com

11 A list of 13 numbers has an average of 330. When two numbers are deleted from the list, the average of the remaining numbers is 313.

(a) What is the sum of 13 numbers?

(b) What are the two numbers that have been deleted given that the difference between the two numbers is 1?

Ans: (a) _____ [1]

(b) _____ and _____ [2]

3

Downloaded from SingaKids.com

12 The usual price of a pen sold at Shop A and B is $20. During a sale, a discount of 20% is given to every pen sold at Shop A. At Shop B, a discount of 50% is given to the 3rd pen for every 3 pens sold. How much cheaper would it be if Lina buys 8 pens from Shop A instead of Shop B?

Ans: _____ [4]

4

Downloaded from SingaKids.com

13 Mdm Koh paid $30.60 for some mangoes and oranges. She bought 8 more oranges than mangoes. A mango cost $1.80 which was 4 times as much as an orange. How many mangoes did Mdm Koh buy?

Ans: _____ [5]

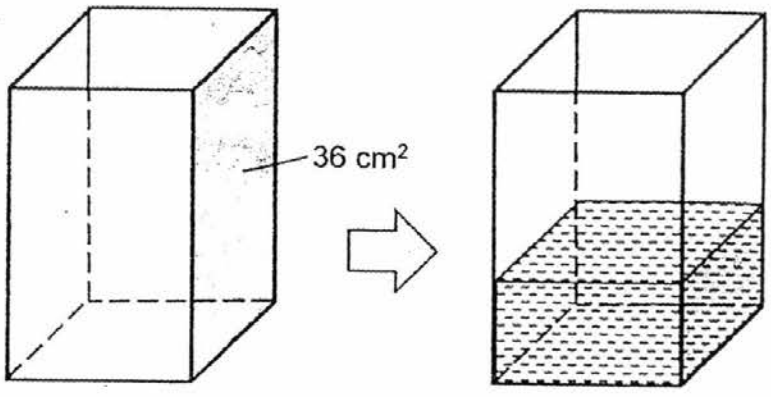
5

Downloaded from SingaKids.com

14 The figure shows a rectangular container with a square base of area 16 cm^2. The area of the shaded face is 36 cm^2.

(a) What is the height of the container?

(b) James filled a third of the container with water. Find the volume of the water.



Ans: (a) _____ [3]

(b) _____ [2]

5

Downloaded from SingaKids.com

15 Mdm Ang used $\frac{4}{7}$ of her red buttons and $\frac{3}{5}$ of her blue buttons to sew a quilt. In the end, she had an equal number of red buttons and blue buttons left. Given that Mdm Ang had a total of 377 red and blue buttons at first, how many blue buttons did she use to sew the quilt?

Ans: _____ [4]

4

Downloaded from SingaKids.com

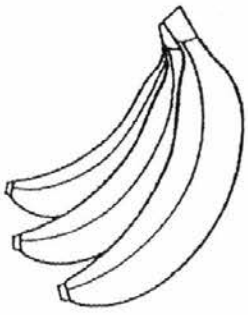
16 The ratio of the number of pop idol cards Alice, Beth and Christine had was 3 : 5 : 2. Alice gave half of her cards to Beth. Beth in turn gave 45 cards to Christine. Christine then had 3 times the number of cards Alice had at the end of the game. How many cards did Beth have at the end of the game?

Ans: _____ [4]

4

Downloaded from SingaKids.com

17 The prices of two fruits sold at a supermarket is shown below.

	
Grapes 2 kg for $12	**Banana** 3 kg for $10

(a) Mrs Tan bought an equal mass of grapes and bananas and spent $64 more on grapes than on bananas. What was the total mass of fruits that Mrs Tan bought?

(b) Mrs Devi spent an equal amount of money on grapes and bananas. In terms of their masses, what was the ratio of grapes to the ratio of bananas Mrs Devi bought?

Ans: (a) _____ [3]

(b) _____ [2]

5

Downloaded from SingaKids.com

18 Mrs Shah bought an air purifier for $216 after a discount of 25%.

(a) What was the price of the air purifier before discount?

(b) She paid $128 for a vacuum cleaner. The total discount for the air purifier and the vacuum cleaner was $104. What was the percentage discount given for the vacuum cleaner?

Ans: (a) _____ [1]

(b) _____ [4]

END OF PAPER 2

5

Downloaded from SingaKids.com

YEAR : 2016
LEVEL : PRIMARY 5
SCHOOL : RED SWASTIKA
SUBJECT : MATHEMATICS
TERM : SA2

Paper 1

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

Q16 24

Q17 $6 \text{ m} \div 6 \Rightarrow \underline{1 \text{ m}}$

Q18 0.07

Q19 0.497

Q20 2:05 pm

Q21 64 cm^2

Q22 $60 + 80 \rightarrow 140$
$360 - 140 \Rightarrow \underline{220°}$

Q23 $0.325 \times 2 = 0.65$
$0.75 \times 2 = 1.5$
$1.5 + 0.65 + 1.5 \Rightarrow \underline{3.65\ \ell}$

Q24 Area ACE $\rightarrow \frac{1}{2} \times 3 \times 4 = 6 \text{ cm}^2$
Area rec ACDF $\rightarrow 6 \times 2 = 12 \text{ cm}^2$
AF $\rightarrow 12 \div 5 \Rightarrow \underline{2.4 \text{ cm}}$

Q25 Total $\rightarrow 5 \times 4 \times 3 = 60$
Diff $\rightarrow 60 - 16 \Rightarrow \underline{44 \text{ cubes}}$

Q26 $\frac{1}{5} \rightarrow 76 \div 2 = 38$
$\frac{5}{8} \rightarrow 38 \times 5 = 190$
$190 \div 2 \Rightarrow \underline{95}$

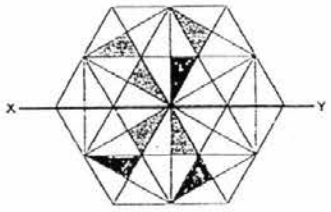
Q27 Price $\rightarrow 12 + 0.84 \Rightarrow \underline{\$12.84}$

www.testpaper.biz

Downloaded from SingaKids.com

Q28 $1390 - 400 \rightarrow 990$
$990 \div 3 \Rightarrow \underline{330}$

Q29



Q30 1 side $\rightarrow 270 \div 9 = 30$
8 sides $\rightarrow 30 \times 8 \Rightarrow \underline{240\ cm}$

Paper 2

Q1 $1u \rightarrow \$49.90$
$6u \rightarrow 6 \times \$49.90 \Rightarrow \underline{\$299.40}$

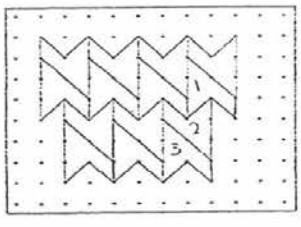
Q2 Diff $\rightarrow 3.7 - 3.5 = 0.2$
1 spacing $\rightarrow 0.2 \div 8 = 0.025$
5 spacings $\rightarrow 0.025 \times 5 = 0.125$
No. $\rightarrow 3.5 + 0.125 \Rightarrow \underline{3.625}$

Q3

Team A		Team B
B : G : T		B : G : T
(1 : 2 : 3) x 3		5 : 4 : 9
$\rightarrow$ 3 : 6 : 9		
B	:	G
3 + 5	:	6 + 4
8	:	10
$\Rightarrow$ 4	:	5

Q4 Now Jack $\rightarrow 16 + 2 = 18$
Now Jill $\rightarrow 18 \div 3 = 6$
2 yrs later:
Jack $18 + 2 = 20$
Jill $\rightarrow 6 + 2 = 8$
Total $\rightarrow 20 + 8 \Rightarrow \underline{28\ years\ old}$

Q5



Downloaded from SingaKids.com

Q6 Eaten $\rightarrow \frac{3}{5} \times 10 = 6$ kg

Left $\rightarrow 10 - 6 - 1\frac{3}{5}$ kg $\Rightarrow 2\frac{2}{5}$ kg

Q7 17

Q8 $\angle BCE \rightarrow 90° - 40° = 50°$

$\angle JCG \rightarrow 90° - 27° = 63°$

$\angle X \rightarrow 50° + 63° - 90° \Rightarrow \underline{23°}$

Q9 $\$95 \rightarrow 9u - 7u = 2u$

$1u \rightarrow 95 \div 2 = \$47.50$

$18u \rightarrow \$47.50 \times 18 \Rightarrow \underline{\$855}$

Q10a $100 + 250 + 350 + 400 + 300 \Rightarrow \underline{1400 \text{ students}}$

Q10b No. students $\rightarrow 1400 - 100 = 1300$

$\frac{1300}{1400} \times 100\ \% \approx \underline{93\ \%}$

Q11a $330 \times 13 \Rightarrow \underline{4290}$

Q11b $13 - 2 = 11$

$313 \times 11 = 3443$

Sums (deleted) $\rightarrow 4290 - 3443 = 847$

$847 - 1 = 846$

$846 \div 2 = 423$

1st no. $\rightarrow 423$

2nd no. $\rightarrow 423 + 1 = 424$

Ans: <u>423 and 424</u>

Q12 Shop A $\rightarrow$ Cost 8 pens

$\frac{80}{100} \times 20 \times 8 = \$128$

Shop B $\rightarrow$ 3rd pen

$\frac{50}{100} \times 20 = \$10$

8 pens $\rightarrow (20 + 20 + 10) + (20 + 20 + 10) + 20 + 20 = \$140$

Diff $\rightarrow 140 - 128 \Rightarrow \underline{\$12}$

Q13 1 orange $\rightarrow 1.80 \div 4 = \$0.45$

8 oranges $\rightarrow 0.45 \times 8 = \$3.60$

Cost $\rightarrow$ (equal no. fruits) $\$30.60 - \$3.60 = \$27$

Cost $\rightarrow$ (1 orange + 1 mango) $\$1.80 + \$0.45 = \$2.25$

$27 \div 2.25 \Rightarrow \underline{12 \text{ mangoes}}$

www.testpaper.biz

Downloaded from SingaKids.com

Q14a

Length of base $\rightarrow \sqrt{16} = 4$ cm

Height of container $\rightarrow 34 \div 4 \approx \underline{9 \text{ cm}}$

Q14b

Volume water $\rightarrow \frac{1}{3} \times 4 \times 4 \times 9 \Rightarrow \underline{48 \text{ cm}^3}$

Q15

Red $\rightarrow$ 14 units

Blue $\rightarrow$ 15 units

Total $\rightarrow 14 + 15 = 29$ units

1u $\rightarrow 377 \div 29 = 13$

$13 \times 9 \Rightarrow \underline{117 \text{ blue buttons}}$

Q16

	A	B	C	T
At first	(3	5	2	10) x 2
	= 6	10	4	20
Alice give	A	B	C	T
(3u)	3	13	4	20
End	A	B	C	T
	3	8	9	20

Beth $\rightarrow 20 - 3 - 9 = 8$u

1u $\rightarrow 45 \div 5 = 9$

5u $\rightarrow 45$

8u $\rightarrow 9 \times 8 \Rightarrow \underline{72 \text{ cards}}$

Q17a

Cost 6 kg grapes $\rightarrow 3 \times 12 = \$36$

Cost 6 kg bananas $\rightarrow 2 \times 10 = \$20$

Diff $\rightarrow 36 - 20 = \$16$

No. sets $\rightarrow 64 \div 16 = 4$

Mass fruits $\rightarrow (6 + 6) \times 4 \Rightarrow \underline{48 \text{ kg}}$

Q17b

Amount of grapes $\rightarrow (60 \div 12) \times 2 = 10$ kg

Amount of bananas $\rightarrow (60 \div 10) \times 3 = 18$ kg

G	B
10	18

Ratio $\Rightarrow$ $\underline{5 : 9}$

Q18a

100 % - 28 % = 75 %

75 % $\rightarrow$ 216

1 % $\rightarrow 216 \div 75 = 2.88$

100 % $\rightarrow 2.88 \times 100 \Rightarrow \underline{\$288}$

Q18b

Discount (purifier) $\rightarrow 288 - 216 = \$72$

Discount (vacuum) $\rightarrow 128 + 32 = \$160$

% discount $\rightarrow \frac{32}{160} \times 100\ \% \Rightarrow \underline{20\ \%}$

End

Downloaded from SingaKids.com