RED SWASTIKA SCHOOL

2018 SEMESTRAL ASSESSMENT 2

MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 5 / _____

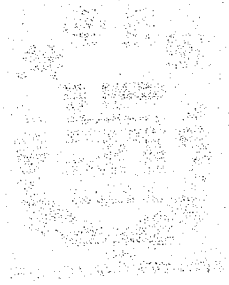
Date : 25 October 2018

BOOKLET A

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

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 7
   (b) Questions 1 to 15
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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

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1 What is three million, seven hundred and thirty-four thousand, two hundred and five in numerals?

(1) 3 734 025
(2) 3 734 205
(3) 3 734 250
(4) 3 735 205

2 Mrs Lee bought 10 m of ribbon to give to her 7 students equally. How much ribbon did each student get?

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

(2) $\frac{7}{10}$ m

(3) $1\frac{3}{7}$ m

(4) $1\frac{3}{10}$ m

3 $\square \times 10 = 345.9$

What is the missing number in the box?

(1) 3.459
(2) 34.59
(3) 3459
(4) 34 590

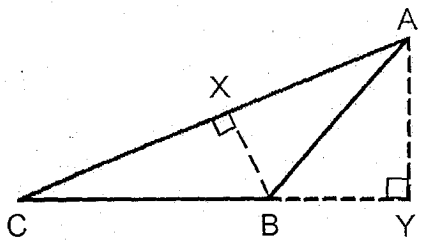
4 Which of the following is the same as 70.03 km?

(1) 7 km 3 m
(2) 7 km 30 m
(3) 70 km 3 m
(4) 70 km 30 m

5 Sze Jia measures the length of a coffee table and finds that it is 10 handspans wide. Her handspan is 13.6 cm wide. What is the length of the coffee table?

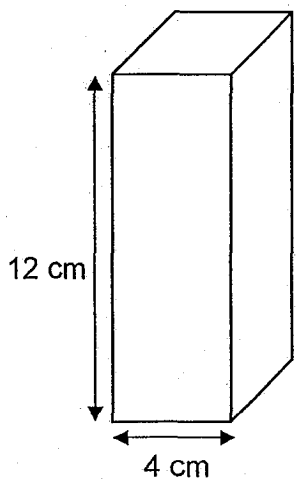
(1) 23.6 cm
(2) 136 cm
(3) 236 cm
(4) 1360 cm

6 In the figure below, ABC is a triangle. Identify the height of Triangle ABC when AC is the base.



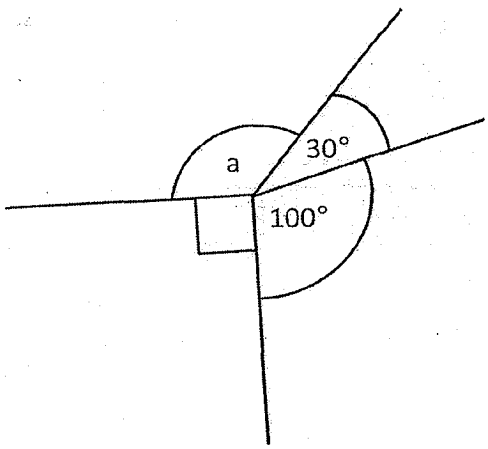
(1) BY
(2) AY
(3) BX
(4) AX

7 A cuboid of height 12 cm has a square base of edge 4 cm. What is the volume of the cuboid?



(1) 20 cm^3
(2) 48 cm^3
(3) 192 cm^3
(4) 576 cm^3

8 Find $\angle a$.



(1) 100°
(2) 140°
(3) 150°
(4) 220°

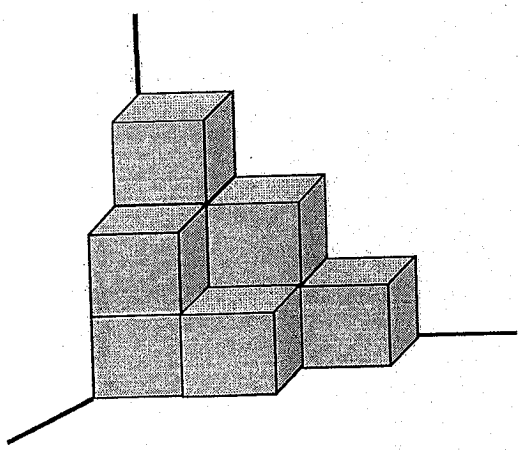
9 Kenneth scored 60 points in a game, Dan scored 80 points and Gary scored 96 points. What was the ratio of Kenneth's score to Dan's score to Gary's score?

(1) 20 : 24 : 15
(2) 24 : 15 : 20
(3) 15 : 20 : 24
(4) 15 : 24 : 20

10 Express $\frac{36}{90}$ as a percentage.

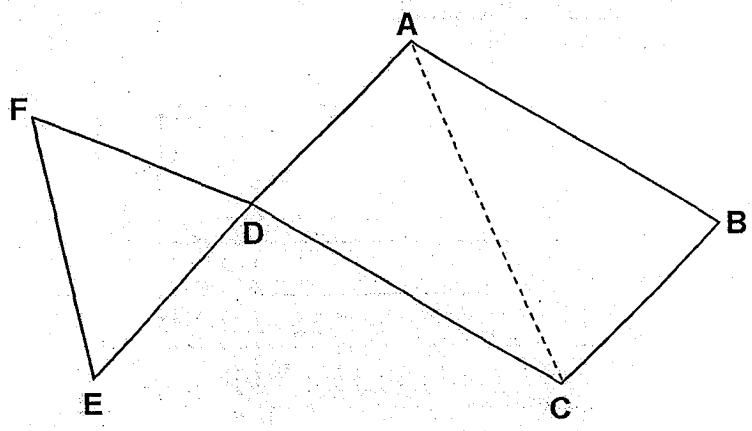
(1) 36%
(2) 40%
(3) 250%
(4) 400%

11 The solid below is made up of similar unit cubes. How many unit cubes are used to build the solid?



(1) 6
(2) 7
(3) 8
(4) 9

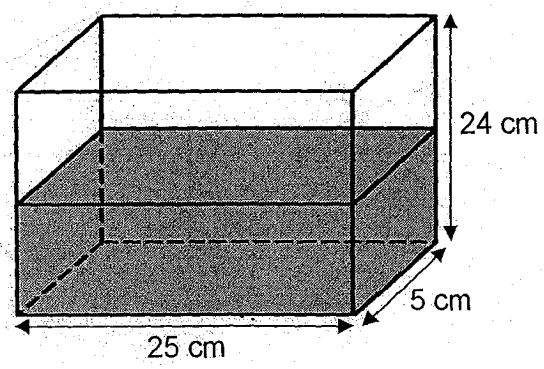
12 In the figure below, ABCD is a parallelogram and DEF is an equilateral triangle. ADE is a straight line.

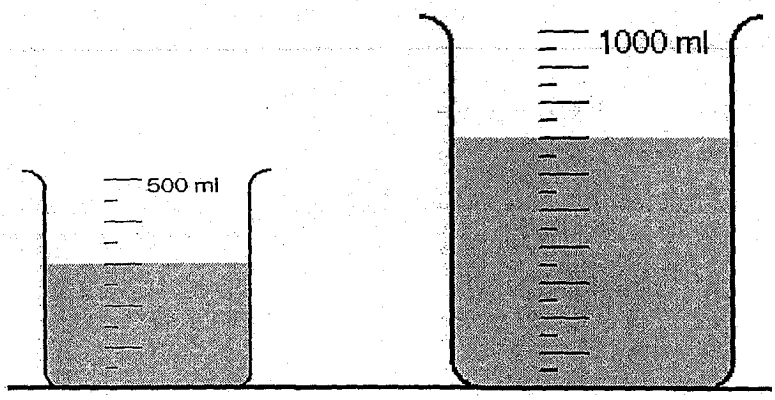


Which of the following statements is <u>not true</u> about the figure above?

(1) $\angle FDE = \angle ADC$
(2) $\angle DAB = \angle BCD$
(3) $\angle DAB + \angle ABC = 180°$
(4) Sum of angles in Triangle DEF is equal to the sum of angles in Triangle ABC.

13 The rectangular tank, 25 cm by 5 cm by 24 cm shown below is half-filled with water. Jack poured all the water from Beaker A and Beaker B into the tank without any spillage. What fraction of the tank is filled with water in the end?





Beaker A Beaker B

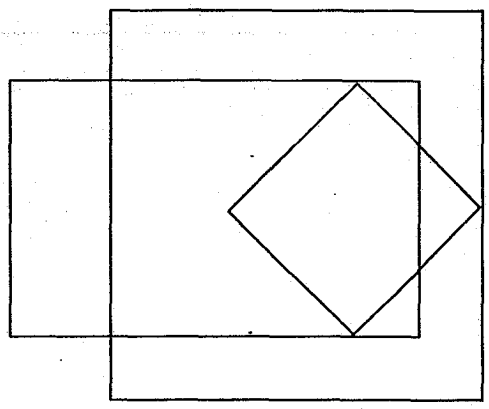
(1) $\frac{1}{2}$

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

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

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

14 The figure below is made up of 2 squares and a rectangle. How many right angles are there in the figure?



(1) 12
(2) 14
(3) 16
(4) 18

15 At first, Steve had 24 more comic books than Noel. Then Noel gave 15 of his comic books to Steve. Now Steve has thrice as many comic books as Noel. How many comic books did Steve have at first?

(1) 42
(2) 52
(3) 66
(4) 81

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16 Find the value of $5 \times (96 \div 8 + 4) - 13 \times 4$.

Ans: _____

17 Divide 820 000 by 4000.

Ans: _____

18 A volleyball match between Class A and Class B lasted for 1 h 15 min. The match ended at 4.50 p.m. What time did it start? Express your answer using the 24-hour clock.

Ans: _____

3

19 A worker takes 30 minutes to build a table. How many tables can 2 workers build in 180 minutes?

Ans: _____

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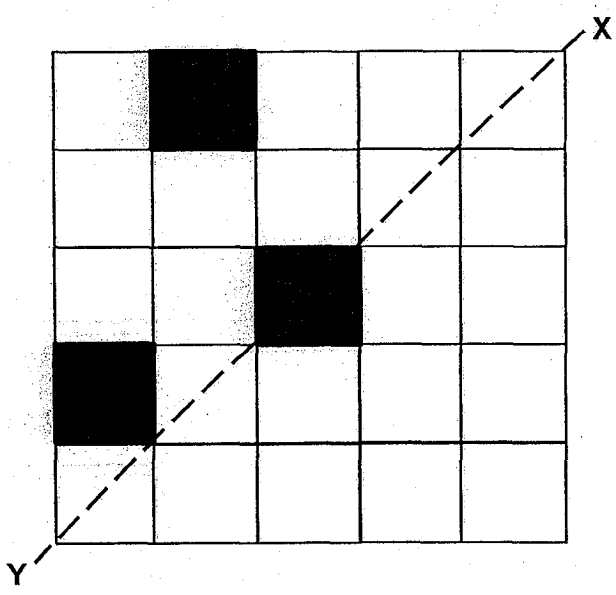
20 The figure below is a symmetric pattern with XY as the line of symmetry. Complete the symmetric pattern by shading 2 more squares.



2

Questions 21 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. (20 marks)

21 Jacob had \$82. 100 g of rice cost \$2.80 and he bought 1 kg of rice. How much did he have left?

Ans: \$_____

22 Find the value of $3\frac{2}{15} \times 5$. Express your answer in its simplest form.

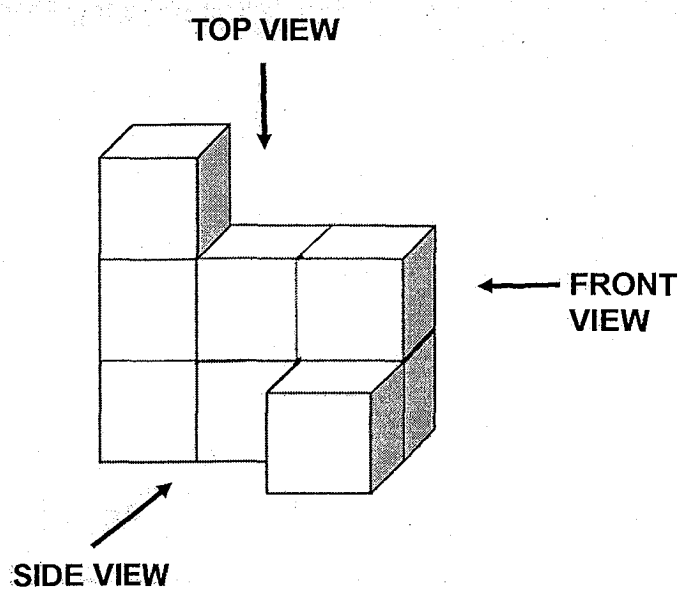
Ans: _____

23 What is the value of $37.5 \div 3000$?

Ans: _____

6

24 Eric stacked 8 cubes to form a solid as shown below. Name the two views that are the same.



Ans: _____view and

_____view

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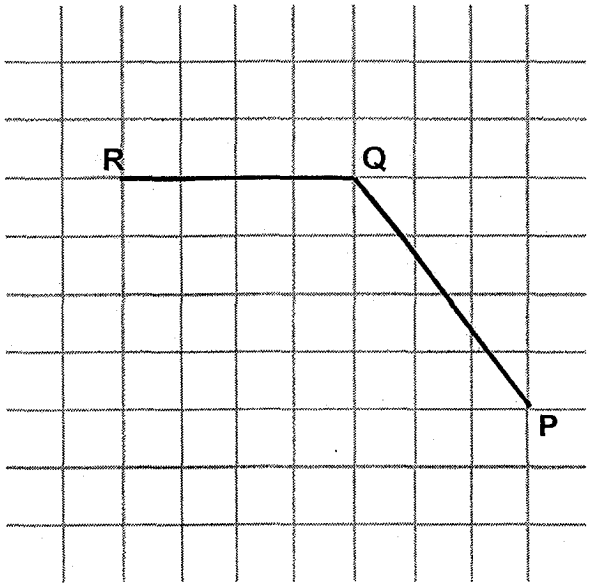
25 In the square grid below, PQ and QR form two sides of Trapezium PQRS.
(a) Measure ∠PQR.
(b) Complete the drawing of Trapezium PQRS, given that ∠PSR is 90°.



Ans: (a)_____°

4

26 The ratio of Janice's marks to Eunice's marks is 4 : 9. The ratio of Eunice's marks to Sam's marks is 5 : 4. If Eunice scored 45 marks, how many marks did Sam and Janice score together?

Ans: _____

---

27 Sean had a box of 15 balls which weighed 62 kg. After removing 6 balls, the box and the remaining balls weighed 38 kg. How much did each ball weigh?

Ans: _____kg

4

28 Mrs Tan spent \$35 more than $\frac{2}{5}$ of her money on groceries. She was left with \$40. How much did Mrs Tan have at first?

Ans: \$ _____

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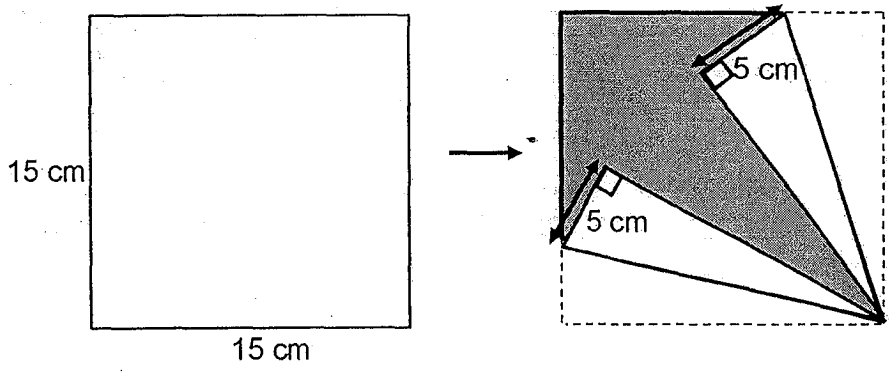
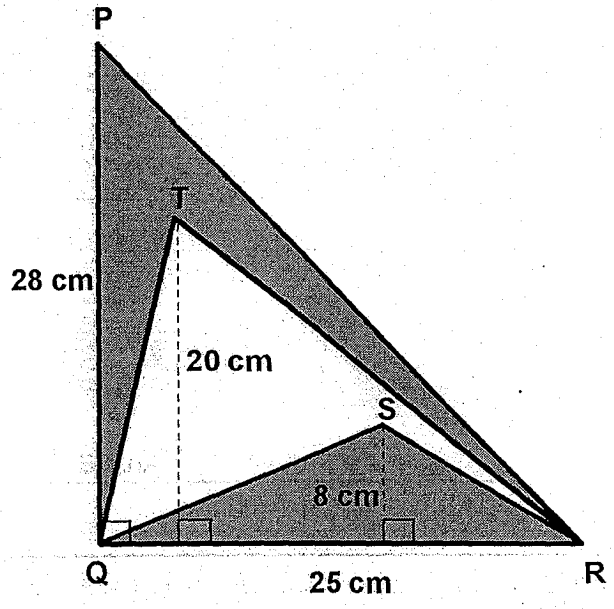
29 A square origami paper of side 15 cm was folded to form the shape shown below. Find the shaded area.



Ans: _____ cm^2

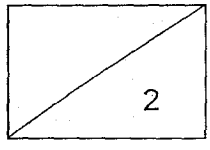
4

30 The figure below shows 3 triangles, PQR, TQR and SQR. Find the total area of the shaded parts of the figure.



Ans: _____ cm^2

END OF PAPER



RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2018 SEMESTRAL ASSESSMENT 2

MATHEMATICS
PAPER 1

Name : _____ ( )

Class : Primary 5 / _____

Date : 25 October 2018

BOOKLET B

15 Questions
25 Marks

In this booklet, you should have the following:
(a) Page 8 to Page 14
(b) Questions 16 to 30

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		25
TOTAL		45

Parent's Signature : _____

Questions 1 to 5 carry 2 marks each. Show your workings 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 There are 16 apples in Basket A, 20 oranges in Basket B and 30 pears in Basket C. What is the average number of fruits in each basket?

Ans: _____

---

2 The table below shows the rental charges for scooter bikes.

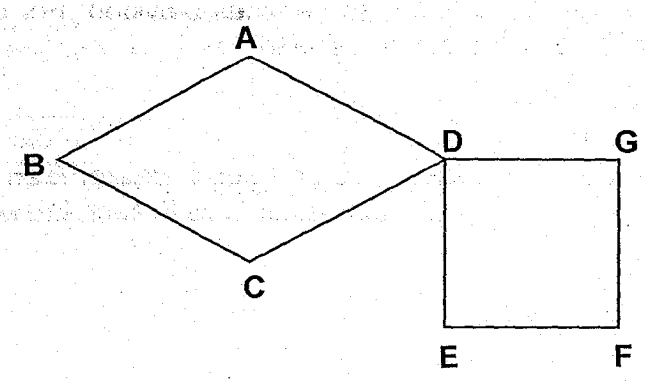
First hour	$5
For every additional 30 min or part thereof	$2

Ming Wei rented a scooter bike for 2 h 15 min.
How much did he pay for the rental?

Ans: $_____

4

3 The figure is made up of a Rhombus ABCD and a Square DEFG.



Tick whether the statement is 'True' or 'False' accordingly.

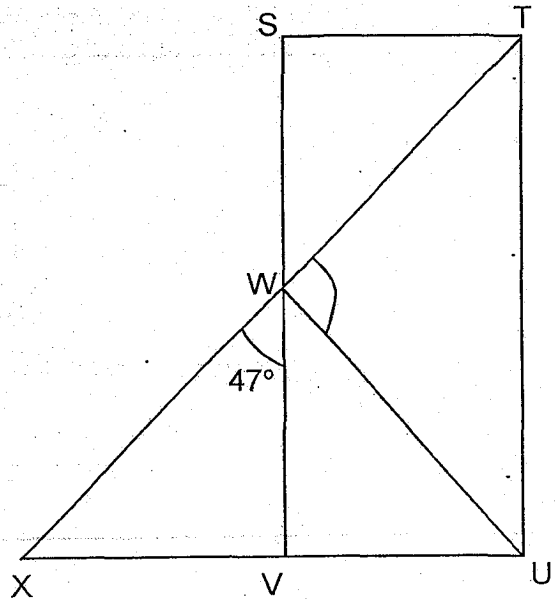
	True	False
a) AB is parallel to CD.		
b) DG is parallel to AD.		
c) AB is perpendicular to CD.		
d) GF is perpendicular to EF.		

4 A rectangular water tank has a base area of 50 m^2 and a height of 9 m. What is the volume of water in the tank when it is half full?

Ans: _____ m^3

4

5 The figure below shows a Rectangle STUV and an isosceles Triangle XUW. W is the mid-point of SV and TWX is a straight line. Find $\angle$TWU.



Ans: _____°

2

For Questions 6 to 17, show your workings 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.

(45 marks)

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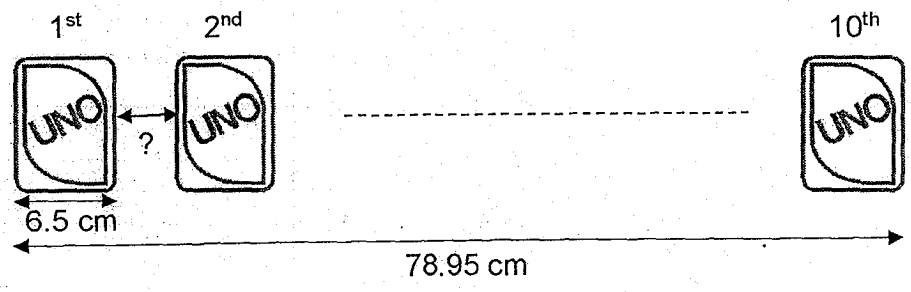
6 10 identical UNO cards are placed in a straight row at equal distance apart. What is the distance between the first and the second card?



Ans: _____ [3]

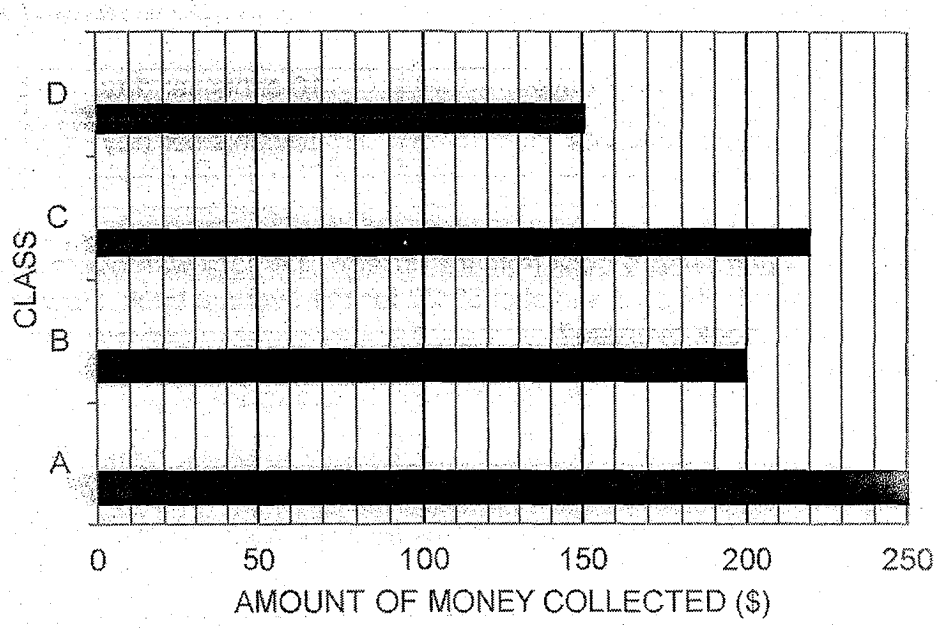
---

7 Amos bought 24 bottles of juice and had $13 left. Benjamin bought 17 similar bottles of juice and had $34 left. They had the same amount of money at first. How much did they have altogether at first?

Ans: _____ [3]

6

8 The graph shows the amount of money collected by 4 classes for charity.



(a) What was the total amount of money collected by the 4 classes?

(b) The average amount of money collected by another 2 classes, Class E and Class F, was $430. What was the average amount of money collected by all the 6 classes?

Ans: (a)_____ [1]

(b)_____ [2]

3

9 The table shows the rate of charges for each overdue book borrowed from a library.

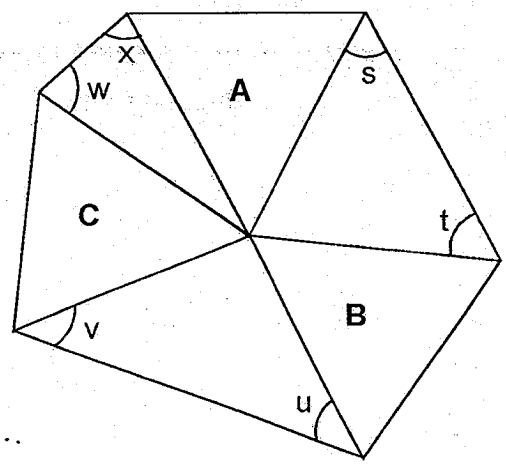
For the first 7 days	10 cents per day
8^{th} day onwards	50 cents per day

Danny borrowed a book from the library. The book was overdue when he returned it. He paid a total of $2.20 for the overdue book. How many days was the book overdue?

Ans: _____ [3]

3

10 The six-sided figure below is made up of 3 identical equilateral triangles, A, B and C.



(a) What is the sum of the angles in the 2 equilateral triangles, B and C?

(b) Find the sum of $\angle s$, $\angle t$, $\angle u$, $\angle v$, $\angle w$ and $\angle x$.

Ans: (a)_____ [1]

(b)_____ [2]

3

11 Mrs Han made 7 pizzas at first. She gave $2\frac{1}{2}$ pizzas to her neighbour and her 3 children each ate $\frac{1}{4}$ pizza. After which, Mrs Han made another $3\frac{2}{5}$ pizzas. How much pizzas were there left in the end? Express your answer as a mixed number in its simplest form.

Ans: _____ [3]

3

12 Shinta sold some necklaces and bracelets in her shop. On Saturday, she earned $600. 32% of her earnings on Saturday were from selling necklaces. On Sunday, she earned another $600 and 25% of the earnings on Sunday were from selling bracelets.

(a) How much did Shinta earn from selling necklaces on Saturday?

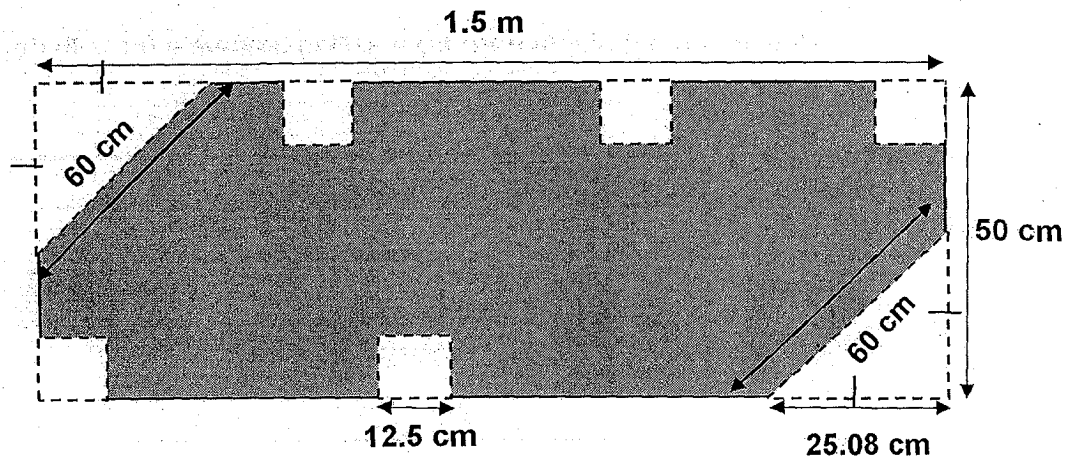
(b) How much did Shinta earn from selling bracelets for both days?

Ans: (a)_____ [1]

(b)_____ [3]

4

13 Five identical 12.5 cm squares and two identical isosceles triangles were cut out from a rectangular piece of paper measuring 1.5 m by 50 cm as shown below. Find the perimeter of the remaining piece of paper.



Ans: _____ [5]

5

14 Mr Johnson takes Mrs Johnson, his 3 children and his parents who are both senior citizens to a theme park. A 35% discount was given to a family package of $60 consisting of 2 adults and 1 child. Additional child is entitled to a 50% discount off the entrance fee of $15. Senior citizens are given a further discount of $8 each from the entrance fee of $18. What is the least amount of money Mr Johnson has to pay for the whole family?

Zoomo Theme Park

Entrance Fees

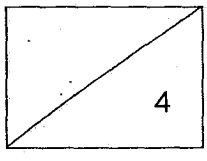
		$
1 Adult ticket	**:**	**30**
1 Child ticket	**:**	**15**
1 Senior ticket	**:**	**18**
1 Family package (2 Adults and 1 Child)	**:**	**60**

Ans: _____ [5]

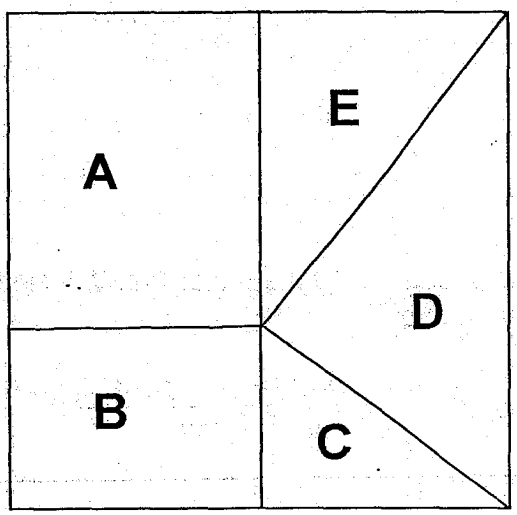
5

15 There were 14 lollipops more than chocolate bars in a candy shop. $\frac{2}{5}$ of the chocolate bars and $\frac{3}{7}$ of lollipops were sold. Given that there were 213 chocolate bars and lollipops left, how many chocolate bars were there in the candy shop at first?

Ans:_____ [4]

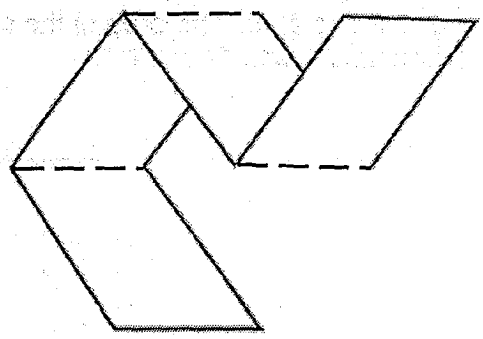


16 The figure below shows a square which is made up of Rectangles A and B and Triangles C, D and E. The total area of the two rectangles is the same as the total area of the three triangles. The ratio of the area of Rectangle A to the area of Rectangle B is 7 : 3 and the ratio of the area of Triangle C to the area of Triangle E is 2 : 8. The area of the square is 324 cm^2. Find the total area of Rectangle A and Triangle D.



Ans:_____ [4]

17 Estella folded a strip of paper in half. She noticed that there were two small rectangles and one crease. She then folded the paper in half again. There were four rectangles and three creases as shown.



(a) Estella continued to fold the paper in half. Help her to complete the table below.

Number of folds	Number of small rectangles	Number of creases
1	2	1
2	4	3
3		
4		

[1]

(b) How many small rectangles would there be if Estella folded the strip of paper 6 times?

(c) What was the number of folds if there were 511 creases?

Ans: (b)_____ [2]

(c)_____ [2]

END OF PAPER

5

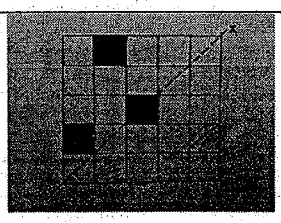
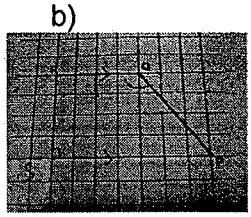
SCHOOL : RED SWASTIKA PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA2

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
4	1	4	4	3

PAPER 1 BOOKLET B

Q16)	28
Q17)	205
Q18)	15 35
Q19)	180 ÷ 15 = **12**
Q20)	
Q21)	2.8 x 10 = 28 82 – 28 = **54**
Q22)	15 2/3
Q23)	0.0125
Q24)	Top and front view
Q25)	**a) 128^0** b) 

Q26)	36 + 20 = **56**
Q27)	62 kg – 38 kg = 24 kg 24 kg ÷ 6 = **4** kg
Q28)	40 + 35 = 75 75 ÷ 3 = 25 25 x 5 = **125**
Q29)	5 x 15 = 75 75 x 2 = 150 15 x 15 = 225 225 - 150 = **75**
Q30)	½ x 8 x 25 = 100 ½ x 20 x 25 = 250 250 – 100 = 150 ½ x 25 x 28 = 350 350 – 150 = **200**

PAPER 2

Q1)	16 + 20 + 30 = 66 66 ÷ 3 = **22**
Q2)	2 x 3 = 6 6 + 5 = **11**
Q3)	a) True b) False c) False d) True
Q4)	½ x 50 x 9 = **225**
Q5)	$180^0 - 47^0 - 47^0 = \mathbf{86^0}$
Q6)	10 x 6.5 = 65 78.95 x 65 = 13.95 13.95 cm ÷ 9 = **1.55 cm**
Q7)	$34 - $13 = $21 $21 ÷ 7 = $3 ($3 x 24 + 13) x 2 = **$170**

Q8)	a) $250 + $150 + $220 + $200 = **$820** b) $430 x 2 = $860 $860 + $820 = $1680 $1680 ÷ 6 = **$280**
Q9)	10 x 7 = 70 220 – 70 = 150 150 ÷ 50 = 3 7 + 3 = **10**
Q10)	a) 180^0 x 2 = **360^0** b) 180^0 x 6 = 1080^0 $1080^0 - 360^0 - 360^0$ = **360^0**
Q11)	7 – 2 ½ - ¾ = 3 ¾ 3 ¾ + 3 2/5 = **7 3/20**
Q12)	a) $600 x 32% = **$192** b) $600 - $192 = $408 $600 x 25% = $150 $ 150 + $408 = **$558**
Q13)	150 x 2 + 50 x 2 = 400 400 – 25.08 x 4 + 60 x 2 = 419.68 419.68 + 12.5 x 6 = **494.68**
Q14)	2 x 15 x 50% = 30 60 x 65% = 39 39 + 15 = 54 18 – 8 = 10 10 x 2 = 20 20 + 54 = **$74**

Q15) Before : C = L -14
C = 35u
L = 35u + 14
After : C = 21u
L = 20u + 8
213 = 21u + 20u + 8
= 41u + 8
41u = 205
1u = 5

Total : 5 x 70 + 14 = 5 x 70 +14
= 350 + 14
= **364**

Q16) 324 ÷ 2 = 162
162 ÷ 2 = 81
162 ÷ 10 = 16.2
16.2 x 7 = 113.4
113.4 + 81 = **194.4cm^2**

Q17) a) 3 → **6, 5**
4 → **8, 7**

b) 2 x 6 = 12
c) 511 – 1 = 510
510 ÷ 2 = 255
255 + 1 = **256**