



RED SWASTIKA SCHOOL

2018 SEMESTRAL ASSESSMENT 1

MATHEMATICS PAPER 1

Name : _____ ()

Class : Primary 5 / _____

Date : 4 May 2018

BOOKLET A

15 Questions

20 Marks

Duration of Paper 1 (Booklets A & B): 1 hour

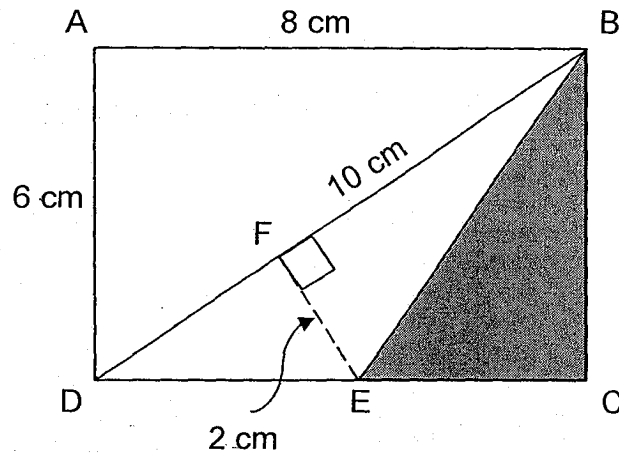
Note:

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 6
 - (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)

- 1 Which digit in 132 549 is in the ten thousands place?
- (1) 1
 - (2) 2
 - (3) 3
 - (4) 4
- 2 What is five million, two hundred and sixty thousand and eighty-three in numerals?
- (1) 5 006 283
 - (2) 5 026 083
 - (3) 5 060 283
 - (4) 5 260 083
- 3 Find the value of $40 + (8 - 4 + 2) \times 5$.
- (1) 18
 - (2) 50
 - (3) 54
 - (4) 70
- 4 Which of the following is equal to $3\frac{1}{8} \times 2 \times 2$?
- (1) $3\frac{1}{2}$
 - (2) $6\frac{1}{4}$
 - (3) $12\frac{1}{8}$
 - (4) $12\frac{1}{2}$

- 5 The rectangle ABCD shown below is not drawn to scale. AB is 8 cm, AD is 6 cm and BD is 10 cm. EF is 2 cm and is perpendicular to BD. Find the shaded area.



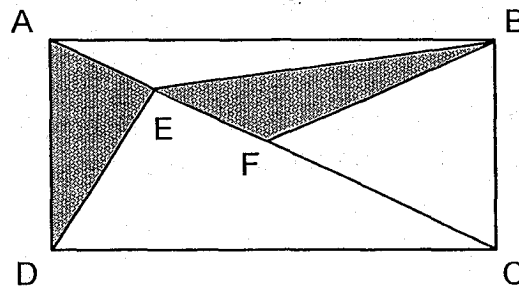
- (1) 12 cm^2
 (2) 14 cm^2
 (3) 24 cm^2
 (4) 38 cm^2
- 6 Mrs Lim had 180 cm of ribbon. She used 72 cm of it to make 9 bows. She used the same length of ribbon to make each bow. Find the most number of bows she can make with the remaining ribbon.
- (1) 12
 (2) 13
 (3) 14
 (4) 15
- 7 Four different flavours of ice cream are sold at Yummy Ice Cream stall. They are Chocolate, Vanilla, Strawberry and Durian. Jane wants to buy 2 scoops of ice cream. She can choose the same flavour or different flavours. How many different ways can she choose her two scoops of ice cream?

- (1) 6
 (2) 8
 (3) 10
 (4) 12

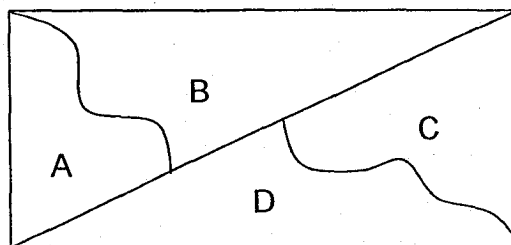
- 8 A school hired buses to ferry 450 students to the sports stadium. Each bus could take a maximum of 40 students. There were not enough buses to ferry all the students so some buses had to make two trips. Half of the buses that went on the first trip made a second trip to ferry the remaining students. What was the least number of buses needed?

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

- 9 The figure below shows Rectangle ABCD. F is the mid-point of AC and E is the mid-point of AF. If the total shaded area is 120 cm^2 , find the area of Rectangle ABCD.

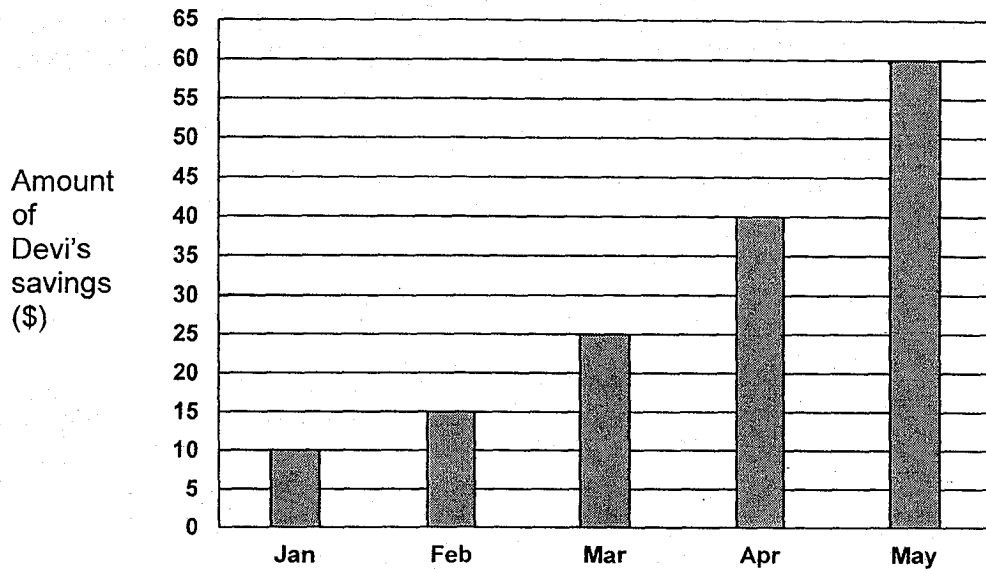


- (1) 240 cm^2
 - (2) 300 cm^2
 - (3) 360 cm^2
 - (4) 480 cm^2
- 10 The rectangle below is divided into 4 parts A, B, C and D. The ratio of Area A to Area B is $1 : 3$. The ratio of Area B to Area C is $2 : 1$. Which of the following statements is false?



- (1) Ratio of Area C to Area A is $3 : 2$.
- (2) Ratio of Area A to Area D is $4 : 10$.
- (3) Ratio of Area A and C to Area B is $2 : 5$.
- (4) Ratio of Area B to Area of rectangle is $3 : 8$.

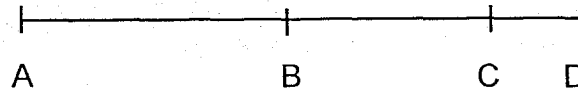
- 11 The bar graph below shows the amount of money Devi saved over 5 months.



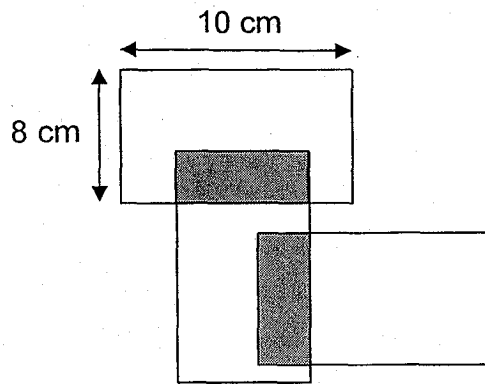
Study the pattern of the amount Devi saved each month. If the pattern continues in June, how much will Devi be expected to save in June?

- (1) \$80
 - (2) \$85
 - (3) \$100
 - (4) \$110
- 12 Alex, Brian and Colin went for a run. Alex ran a distance of 500 m. Brian ran 180 m less than Alex. Colin ran twice the distance of Brian. What was the total distance run by them in kilometres and metres?
- (1) 1 km 40 m
 - (2) 1 km 460 m
 - (3) 10 km 40 m
 - (4) 14 km 60 m

- 13 A, B, C and D are four points on a straight line. AB is half as long as AD. AC is six times the length of CD. If CD is 3 cm long, how long is BC?



- (1) 6 cm
(2) 7.5 cm
(3) 9 cm
(4) 10.5 cm
- 14 The figure below shows 3 identical rectangles measuring 10 cm by 8 cm overlapping equally over one another. The perimeter of each shaded rectangle is 22 cm. What is the total **unshaded** area?



- (1) 144 cm²
(2) 152 cm²
(3) 192 cm²
(4) 196 cm²

15 Ali had some marbles. $\frac{3}{8}$ of them were red and the rest were blue.

He gave away all of the red marbles and $\frac{1}{2}$ of the blue marbles.

What fraction of his marbles was given away?

(1) $\frac{4}{8}$

(2) $\frac{7}{8}$

(3) $\frac{5}{16}$

(4) $\frac{11}{16}$



RED SWASTIKA SCHOOL

2018 SEMESTRAL ASSESSMENT 1

MATHEMATICS PAPER 1

Name : _____ ()

Class : Primary 5 / _____

Date : 4 May 2018

BOOKLET B

15 Questions
25 Marks

In this booklet, you should have the following:

- (a) Page 7 to Page 12
- (b) Questions 16 to 30

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		25
TOTAL		45

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 How many hundreds are there in one million?

Ans: _____

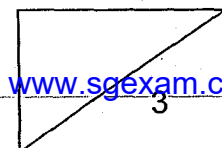
17 Round off 672 998 to the nearest hundred.

Ans: _____

18 What is the missing value in the box?

$$38 \times 18 = 18 + 18 + 18 \times 20 + \boxed{} \times 18$$

Ans: _____

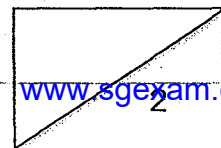


19 Find the value of 2780×60 .

Ans: _____

20 In a school bus, 24 out of all the 40 students are girls. Express the ratio of the number of boys to the number of girls in the school bus in its simplest form.

Ans: _____

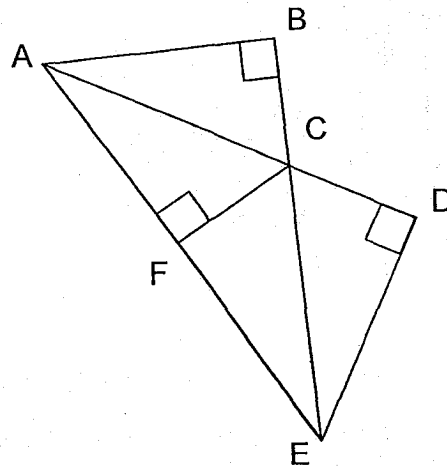


Questions 21 to 30 carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 Mrs Tan had 3 kg of flour. She used 850 g to bake a cake and 730 g to make some pies. What was the mass of flour left? Give your answer in kilograms and grams.

Ans: _____ kg _____ g

- 22 Study the figure below.



- a) If AC is the base, which line is the corresponding height?
b) If CF is the height, which line is the corresponding base?

Ans: a) _____

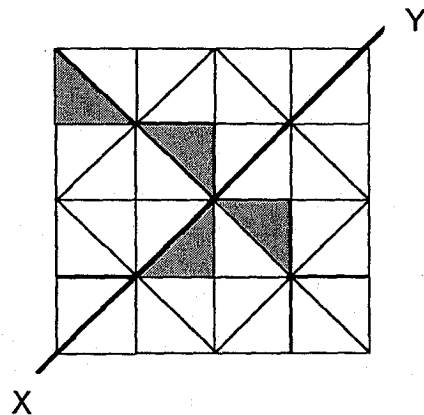
b) _____



- 23 Express $3\frac{6}{7}$ as a decimal correct to 2 decimal places.

Ans: _____

- 24 The figure below is made up of identical triangles. Four of them are shaded. Shade two more triangles so that XY is the line of symmetry for the figure.



- 25 Anna started baking cookies at 14 25 and finished at 17 15. How long did she take to bake the cookies?

Ans: _____

- 26 Express the value of $2\frac{3}{100} + 1\frac{1}{5} - \frac{9}{10}$ as a decimal.

Ans: _____

- 27 Forty files and twenty pens cost \$280. Twenty files and forty pens cost \$260. What is the cost of a file and a pen?

Ans: \$ _____

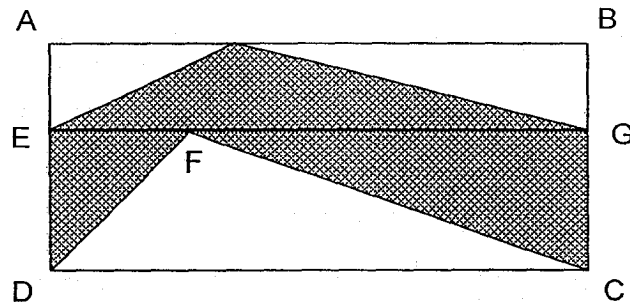
- 28 Tom and Jerry were caught running up a flight of steps in their muddy shoes by the Discipline Master and had to clean up the steps that they stepped on. Tom ran up the steps, 2 steps at a time whilst Jerry ran up the steps, 3 steps at a time. If there are 36 steps altogether, how many steps did they have to clean?

Ans: _____

- 29 Sarah wants to buy a bag but is short of \$18. If she buys a purse, she has \$4 left. The bag costs twice as much as the purse. How much money does Sarah have?

Ans: \$ _____

- 30 The figure below shows a rectangle ABCD. EG is a straight line parallel to AB. AE is 2 cm long. AD is thrice AE. The area of Triangle CDF is 32 cm^2 . Find the shaded area.



Ans: _____ cm^2

END OF PAPER

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 adults and children at a concert. $\frac{1}{3}$ of the audience are men. $\frac{1}{2}$ of the audience are women and the rest are children. If there are 15 children, how many people are there at the concert altogether?

Ans: _____

- 2 There are 154 red and green beads in a box. The ratio of the number of red beads to the number of green beads is 9 : 5. How many more red beads than green beads are there?

Ans: _____

- 3 Mdm Lim bought 60 m of cloth from Shop A. With the same amount of money, how much more cloth can Mdm Lim buy from Shop B?

Shop A \$5.50 / m

Shop B \$4.00 / m

Ans: _____ m

-
- 4 Peter had 89 cards and James had 17 cards. After both of them bought the same number of cards, Peter had thrice as many cards as James. How many cards did James buy?

Ans: _____

- 5 Bob has a rectangular strip of paper as shown in Figure 1. He folds the two ends of the strip as shown in Figure 2. Find the area of the rectangular piece of paper.

Figure 1

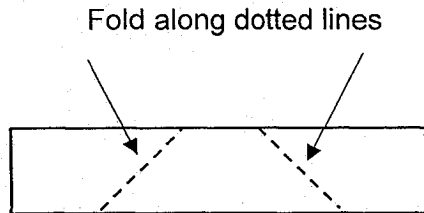
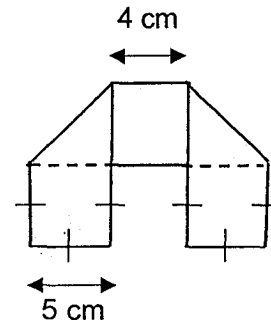


Figure 2



Ans: _____ cm^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)

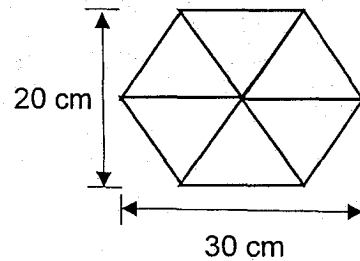
-
- 6 Sarah baked twice as many buns as tarts. After selling 90 buns and 15 tarts, she had thrice as many tarts as buns left. How many tarts did she bake at first?

Ans: _____ [3]

-
- 7 Mr Gopal paid \$250 for some tickets to a concert. The price of each ticket is \$20. For every 4 tickets, the 4th ticket is sold at half price. How many tickets did Mr Gopal get?

Ans: _____ [3]

- 8 The figure below is made up of 6 identical triangles. Find the area of the whole figure.



Ans: _____ [3]

- 9 The ratio of the number of cards Ivan had to the number of cards James had was 4 : 11. Ivan had 16 cards. During a game, James lost 25 cards to Ivan. How many cards did James have in the end?

Ans: _____ [3]

- 10 Jeremy read $\frac{1}{5}$ of the pages of a book on Monday, 36 pages of the same book on Tuesday and $\frac{5}{8}$ of the remaining pages of the book on Wednesday. If there were still 24 pages of the book left unread, how many pages were there in the book?

Ans: _____ [4]

- 11 The ratio of the number of teachers to the number of students in a school is 3 : 20. The ratio of the number of male teachers to the number of female teachers is 1 : 5. There are 68 more female teachers than male teachers. Find the total number of teachers and students in the school.

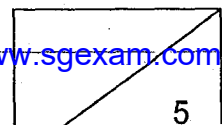
Ans: _____ [4]

- 12 A piece of wire is bent to form a triangle. The length of the sides of the triangle are in the ratio 1 : 2 : 5. The length of the longest side is 60 cm.
- (a) Find the length of the wire used to form the triangle.
 - (b) The same piece of wire is bent to form a square. What is the area of the square?
 - (c) The same piece of wire is bent again to form a rectangle such that the lengths and breadths are whole numbers. What is the longest possible length of the rectangle?

Ans: (a) _____ [2]

(b) _____ [2]

(c) _____ [1]



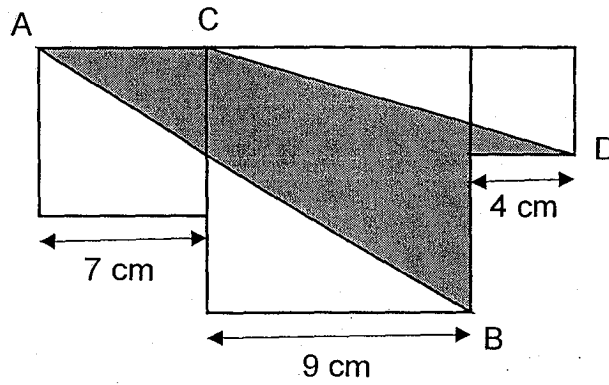
- 13 Mrs Lee bought 12 plates of the same kind. Mrs Fong bought 5 such plates and 5 similar bowls. Each bowl cost \$8. Mrs Fong spent \$51 less than Mrs Lee. How much did Mrs Fong spend?

Ans: _____ [3]

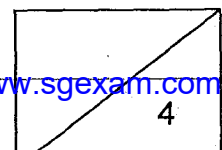
- 14 Mary had a total of 170 red and green beads. She lost $\frac{3}{5}$ of her red beads and bought another 12 green beads. Then the number of green beads was $\frac{3}{4}$ of the number of red beads left. How many green beads did Mary have at first?

Ans: _____ [3]

- 15 In the figure below, there are 3 squares of sides 7 cm, 9 cm and 4 cm respectively. AB and CD are straight lines. Find the shaded area.



Ans: _____ [4]



- 16 3 wallets cost as much as 4 belts. 7 belts cost \$150 more than 4 wallets. Mr Chan spent \$1050 on an equal number of wallets and belts. How many wallets and belts did he buy altogether?

Ans: _____ [5]

- 17 Faiz, Gabriel and Hamir had some cards. Faiz had 24 more cards than Gabriel. After Faiz gave Gabriel $\frac{5}{6}$ of his cards and Hamir gave Gabriel $\frac{2}{5}$ of his cards, Gabriel had 109 cards and Hamir had 18 cards.

- (a) How many cards did Hamir give to Gabriel?
- (b) Express the number of cards Faiz had at first as a fraction of the total number of cards the three boys had.
(Give your answer in its simplest form.)

Ans: (a) _____ [2]

(b) _____ [3]

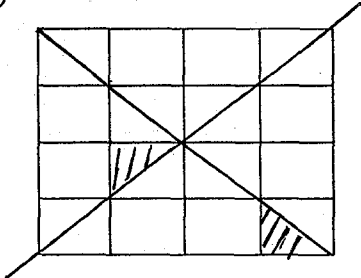
SCHOOL : RED SWASTIKA PRIMARY SCHOOL
 LEVEL : PRIMARY 5
 SUBJECT : MATH
 TERM : 2018 SA1

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
2	2	4	1	4

PAPER 1 BOOKLET B

Q16) 10000
Q17) 673000
Q18) 16
Q19) 166800
Q20) 2 : 3
Q21) 1 KG 420 G
Q22) a)ED b)AE
Q23) 3 .86
Q24) 
Q25) 170 min
Q26) 2.33
Q27) \$9
Q28) 24

Q29)	\$26
Q30)	48 cm ²

PAPER 2

Q1)	$\frac{1}{3} + \frac{1}{2} = \frac{5}{6}$ $15 \times 6 = 90$
Q2)	$154 \div (9+5) = 11$ $11 \times 4 = 44$
Q3)	$60 \times 5.50 = 330$ $330 \div 4 = 82 \text{ R } 2$ ANS : 82 m
Q4)	$89 - 17 = 72$ $72 \div 2 = 36$ $36 - 17 = 19$
Q5)	$5 \times 4 = 20$ $20 + 4 = 24$ $24 \times 5 = 120\text{cm}^2$
Q6)	$1u = 3x + 15$ $90 = 1u + 2x + 15 = 5x + 30$ $5x = 90 - 30 = 60$ $x = 12$ Tarts = $12 \times 3 + 15 = 51$
Q7)	Price of 4 tickets $= 20 \times 3 + 10 = 70$ $250 \div 70 = 3 \text{ R } 40$ $40 \div 20 = 2$ $4 \times 3 + 2 = 14$
Q8)	$10 \times 10 \times \frac{1}{2} = 50$ $50 \times 6 = 300\text{cm}^2$
Q9)	$16 \div 4 = 4$ $4 \times 11 = 44$ $44 - 25 = 19$
Q10)	$24 \div 3 = 8$ $8 \times 8 = 64$ $64 + 36 = 100$ $100 \div 4 = 25$ $25 \times 5 = 125$
Q11)	$68 \div 4 = 17$ $17 \times 6 = 102$ $102 \div 3 = 34$ $34 \times 23 = 782$
Q12)	a) $60 \div 5 = 12$ $12 \times 8 = 96\text{cm}$

b) $96 \div 4 = 24$ $24 \times 24 = 576 \text{ cm}^2$ c) $96 - 2 = 94$ $94 \div 2 = 47 \text{ cm}$	
Q13) $8 \times 5 = 40$ $12p - (5p + 40) = \\$51$ $7p = \\$51 + \\40 $P = \\$13$ $\\$13 \times 5 + \\$40 = \\$105$	
Q14) $170 + 12 = 182$ $182 \div 13 = 14$ $14 \times 3 = 42$ $42 - 12 = 30$	
Q15) $9 - 4 = 5$ $5 \times (9+7) \times \frac{1}{2} = 40$ $4 \times 4 \times \frac{1}{2} = 8$ $7 \times 4 \times \frac{1}{2} = 14$ Total = $40 + 8 + 14 = 62 \text{ cm}^2$	
Q16) $3w = 4B$ $7B = 4w + \\$150$ $28B = 16w + \\$600$ $28B = 24w$ $24w = 16w + \\$600$ $8w = \\$600$ $W = \\$75$ $B = \\$75 \times 3 \div 4 = 56.25$ $\\$1050 \div (\\$75 + \\$56.25) = 8$ $8 \times 2 = 16$	
Q17) $F \rightarrow 6u + 24$ $G \rightarrow 6u$ $H \rightarrow 5x$	$F \rightarrow 1u + 4$ $G \rightarrow 109 (11u + 2x + 20)$ $H \rightarrow 3x (18)$ a) $x = 18/3 = 6$ $2x = 12$ b) $11u + 12 + 20 = 109$ $11u = 77$ $1u = 7$ $F = 7 \times 6 + 24 = 66$ Total = $66 + 109 + 18 = 193$ ANS: 66/193

