

Rosyth School Second Semestral Assessment 2015 Primary 5 Mathematics

Name		Regis	ster No		
Class:	Pr 5				
Date:	30 th October 2015	Parent's Signature:	· · · · · · · · · · · · · · · · · · ·		
Total Time for Booklets A and B : 50 minutes					

PAPER 1 (Booklet A)

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 4. You are not allowed to use a calculator.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

^{*} This booklet consists of <u>7</u> pages (including this cover page)

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For	or
each question, four options are given. One of them is the correct answer. Make you	ur
choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.	
All diagrams are not drawn to scale unless stated otherwise.	

1000000

- ?.

(20 marks)

- 1. 7 hundred thousands +_3 hundreds + 50 ones = ____
 - (1) 7305
 - (2) 7350
 - (3) 700 305
 - (4) 700 350
- 2. Round off 23 714 to the nearest thousand.
 - (1) 20 000
 - (2) 23 000
 - (3) 23 700
 - (4) 24 000
- 3. What is the difference between 3 tenths and 20.45?
 - (1) 10.45
 - (2) 17.45
 - (3) 20.15
 - (4) 20.75 -

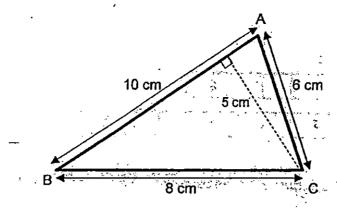
4. The following model represents the number of marbles in 3 boxes, A, B, and C.

Box A	
Box B	
Box C	** .

What is the ratio of the number of marbles in Box C to the total number of marbles in Box A and Box B?

- (1) 6:7
- (2) 7:6
- (3) 7:13
- (4) 13:7
- 5. Amos sat for 3 tests. He scored 90 marks for one test. He scored a total of 90 marks for the other 2 tests. What was the average mark of the 3 tests?
 - (1) 30
 - (2) 45
 - (3) 60
 - (4) 90
- 6. Which one of the following is <u>not</u> equivalent to $1\frac{1}{5}$?
 - (1) 1.15
 - (2) 1.2
 - (3) $\frac{6}{5}$
 - $(4) \frac{12}{10}$

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



- (1) 20 cm²
- (2) . 25 cm²
- (3) 30 cm²
- (4) 40 cm^2
- 8. The ratio of number of roses to the number of lilies in a flower shop is 8 : 5. There are 40 lilies. How many more roses than lilies are there?
 - (1) 8
 - (2) 15
 - (3) 24
 - (4) 64

- 9. Jude is facing east. If he turns 135° anticlockwise, which direction will he be facing?
 - (1) North-west
 - (2) North-east
 - (3) South-west
 - (4) South-east
- 10. Dave used $\frac{3}{8}$ m of wire to make 5 identical triangles. What is the perimeter of each triangle?
 - (1) $\frac{3}{40}$ m
 - (2) $\frac{8}{15}$ m
 - (3) $1\frac{7}{8}$ m
 - (4) $13\frac{1}{3}$ m
- 11. Alan and Jared collect seashells. The average number of seashells each boy has is 250. Alan has 40 seashells more than Jared. How many seashells does Jared have?
 - (1) 55
 - (2) 230
 - (3) 270
 - (4) 290

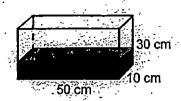
- 12. A baker baked some bread. He sold $\frac{2}{5}$ of them in the morning and another $\frac{1}{3}$ in the afternoon. Then he had 28 loaves left. How many loaves of bread did he bake?
 - (1) 30
 - (2) 39
 - (3) 70
 - (4) 105
- 13. The table below shows the charges for bicycle rental.

Bicycle For Rent	al
For the first hour	\$3
For every additional $\frac{1}{2}$ hour	\$1.20

Lynn rented a bicycle from 9.30 am to 12 noon. How much did she pay?

- (1) \$4.20
- (2) \$6.60
- (3) \$7.20
- (4) \$9

14. A container, 50 cm by 10 cm by 30 cm, is $\frac{1}{3}$ filled with water. How much more water is needed to fill up the container to the brim?



- (1)— 20 cm³
- (2) 5000 cm³
- (3) 10 000 cm³
- (4) 15 000 cm³
- 15. Hassim had \$80. He spent 50% of his money on a watch and 30% of the remainder on a book. How much money was left?
 - (1) \$8
 - (2) \$12
 - (3) \$16
 - (4) \$28

Proceed to Booklet B



Rosyth School Second Semestral Assessment 2015 Primary 5 Mathematics

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Total Time for Booklets A and B:	50 minutes
Date: 30 th October 2015	Parent's Signature:
Class: Pr 5	
Name:	Register No.:

(Booklet B)

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. You are **not** allowed to use a calculator.
- 4. Answer all questions.

Instructions to Pupils:

Section	Maximum Mark	Marks	Obtained
Paper 1 (Booklet B)	20	1 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

^{*} This booklet consists of <u>6</u> pages (including this cover page)

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Questions 16 to 25 carry 1 mark each. Write your answers in the spaces For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale unless stated otherwise.	s provided
For questions which require units, give your answers in the units stated.	•
All diagrams are not drawn to scale unless stated otherwise.	•

Do not write in this space.

(10 marks)

16. Find the value of 60.3 × 70.

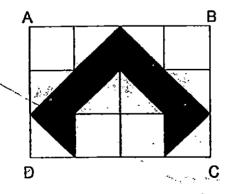
Ans:

17. Find the value of $30 - (6 \times 3) \div 9 + 9$.

Ans: _____

18. In the figure below, ABCD is made up of squares. What fraction of ABCD is shaded? Leave your answer in its simplest form.

2



Ans:-

19.	Express $5\frac{3}{7}$ as a decimal correct to 1 decimal place.	Do not write in this space.
	Ans:	
20.	Express $\frac{3}{8}$ as a percentage.	
	%.	
21.	Ali, Sharon and Leah shared a sum of money in the ratio of 5:4:7. Leah's share was \$60 more than Sharon's. How much was Ali's share?	
	Ans: \$	
22.	There were 20 girls and 17 boys in an Art Club. This month, 4 girls joined the club and 3 boys left the club. What is the ratio of the number of boys to the number of girls in the Art Club now? Leave your answer in the simplest form.	
	Ans:	
		1

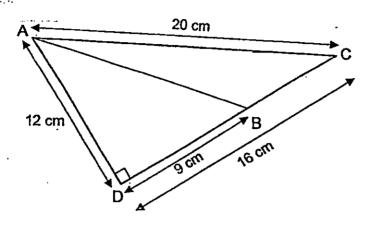
23.	What fraction of the square STUV is unshaded? Leave your answer in its simplest form.	vrite in his space.
	S T	
	Ans:	
24.	Write down the base and height of Triangle ABC. A B D E	·
	C Ans: Base	
	Height	
25.	Alex cycled a distance of 160 km in 5 days. What was the average distance he cycled per day?	
	– . Ans: km	
		-

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. All diagrams are not drawn to scale unless stated otherwise.

Do not write in this space.

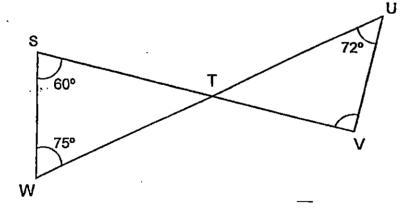
(10 marks)

26. In the figure below, what is the area of triangle ABC?



Ans: ____ cm²

27. The figure below is made up of triangles STW and TUV. STV and WTU are straight lines. Find \angle UVT.



Ans:

28.	In the diagram below, ABC and ACD are isosceles triangles. Find	∠x.	Do not
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	Ans:	o] }
			1
29.	Joan spent an equal amount of money each day from Monday to		
	Wednesday. She spent a total of \$15. On Thursday and Friday, she \$5.50 each day. Find the percentage increase in the amount spent	e spent	
	Thursday as compared to Wednesday.	OII	
		•	
	Ans:	%	
	7013.	/0	
			
30.	Joe placed 10 potted plants in a row at equal distances apart. The	distance	
	between the first and the fifth potted plant was 25.2 m. Find the dis	stance	
	between the first and the last potted plant.		
	_		
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	·		
	Ans:	m	L
			l .

L Do not



Rosyth School Semestral Assessment 2 2015 Primary 5 Mathematics

Name:	Register No			
Class: Pr 5				
Date: 30 October 2015				
Time: 1 h 40 mins				
2455				

PAPER 2

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Show your workings clearly as marks are awarded for correct working.
- 4. Write your answers in this booklet.
- 5. You are allowed to use a calculator.
- 6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

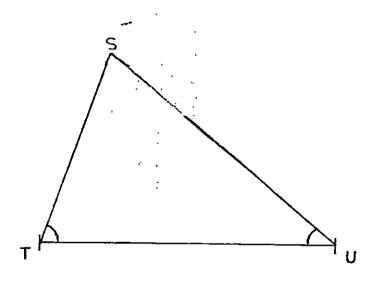
Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	- 60	
Total	100	

^{*} This booklet consists of 18 pages (including this cover page)

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.							
1.	For every \$15 Wei Hong saved, his mother gave him \$3. At the end of the year, Wei Hong had a total of \$828. How much money did he save?						
	Ans: \$						
2.	Mr Harris bought 20 belts. He sold 12 of them at \$8 each and the rest at \$6 each. What was the average price of the 20 belts?						
	Ans: \$						
	2 (Go on to the next	page)					

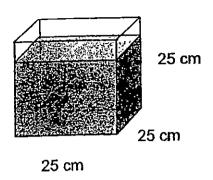


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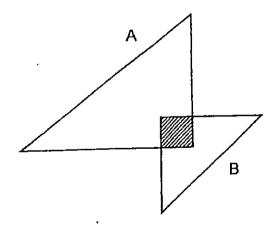
ate. .sji 4. A cubical container of edge 25 cm was filled to the brim_at_first. Some water was drained away from the container and resulted in a 6 cm drop in the water level as shown in the diagram below. Find the amount of water left in the container. Leave your answer in litres and millimetres.

Do not write in this space



Ans:			ml
Allo.	_	 	 _, , , , ,

The figure below consists of 2 triangles A and B whose areas are in the ratio of 3:1. Given that $\frac{1}{12}$ of triangle A is shaded, what is the ratio of the shaded area to the unshaded area of the figure?



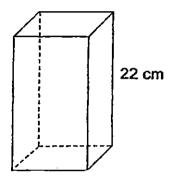
	1 .
Ans:	l

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.

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise. (50 marks)

6. The figure below shows a cuboid with a square base which has a perimeter of 64 cm. Find the volume of the cuboid.

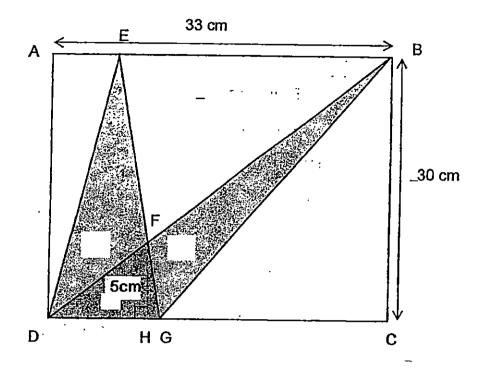


_		
Ans:	[3]	

7.	May, Ellen and Joel have a total of 475 playing cards. May has 55 playing cards more than Ellen. Ellen has twice as many playing cards as Joel. How many playing cards does May have?	Do not write in this space
	· —	
	•	
		_
	A	
	Ans: [3	

8. ABCD is a rectangle measuring 33 cm by 30 cm. The length of FH is 5 cm. Given that the length of DG is $\frac{1}{2}$ of GC, find the shaded area.

Do not write in this space



Ans. _____[3]

9. Ethan is $\frac{1}{3}$ as old as his aunt 10 years ago, the ratio of Ethan's age to his aunt's age was 1:7. How old is Ethan now?

Do not write in this space

Ans:_____[3]

10.	Ali spent 40% of his income?	of his mon , his saving	othly incom increase	e and save	ed the res	t. If he spe uch is his r	nt 25% nonthly	Do not write in this space
	•			•	-		. •	
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	-							
•							j	
:		_						
•					Ans:		[3]	

11.	Iman and Yuven had some marbles. After Iman and Yuven gave away the same number of marbles, Iman had $\frac{3}{4}$ of his marbles left while Yuven had	Do not write in this space
	$\frac{1}{3}$ of his marbles left. Both of them had 385 marbles in the end. How	
	many marbles were given away altogether?	
	·	
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	:	
	:	
•		
	Ans:[3	3]

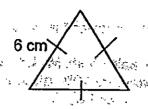
<u> </u>	Arif,	Bee Leng, Chandra and Don donated some books for charity. Arif	Do not write
	dona	ated $\frac{1}{4}$ of the number donated by Bee Leng, Chandra and Don. The	in this space
:	book book	of the number of books donated by Bee Leng to the number of its donated by Chandra and Don was 3:5. The ratio of the number of solution of the number of books donated by Don was Arif donated 8 books more than Chandra.	
	_(a)	What was the total number of books donated by the 4 children?	
	(b)	How many books must Don give to Chandra so they would have the same number of books?	_
		•	
-			
-			}
			<u> </u>
•			
	_		
	_	Ans: (a)[3]	
		(b)[2]	

13.	A bag a bag	g cost \$25 more than a cap and \$13 more than a shirt. Kelly bought g, 2 caps and 4 shirts. She paid a total of \$213.	Do not write in this space
	(a)	How much did the bag cost?	
	(p) _;	Kelly bought 3 more caps at half price each. What is the total amount she had to pay for all the items she bought?	
	:	- 	
	:		
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		_ Ans: (a) {2}	

(b) ___







A square

An isosceles triangle

An equilateral triangle

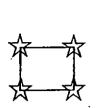
The average length of the wire used for each shape above is 17 cm. Find the length of a side of the isosceles triangle.

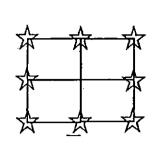
Ans:

15.	Mr Lim sells a watch for \$280. Mr Tan also sells the same type of watch but at a price which is 25% more than Mr Lim.	Do not write in this space		
(a)	What is the price of the watch that is sold by Mr Tan?			
(b)	During a sale, both Mr Lim and Mr Tan gave a discount on the watch. Mr Lim gave a 12% discount while Mr Tan gave a certain percentage discount. Alice bought the watch from Mr Tan and paid \$1.40 less than the discounted price offered by Mr Lim. What was the percentage discount given by Mr Tan?			
	· · · · · · · · · · · · · · · · · · ·			
	:			

16.	A bag contains a number of 20-ce	ent coins, 50-	ent coins a	and \$1 coins	$(\frac{1}{4})^{\frac{1}{2}}$	Do not write in this space
	of the coins are 20-cent coins. $\frac{2}{5}$	of the remain	ider are 50	-cent coins	and	_
	the rest are \$1 coins. The total va	lue of the coir	ns is \$156.		- - - *	
(a) (b)	What fraction of the coins are \$1. How many coins are there altoget	coins? ther?	marka di		i pri	
		_				
	•					
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		_	_			
		Ans: (a	ı)	· · · · · · · · · · · · · · · · · · ·	[1]	
)		[4]	

17.	Mrs Lew ordered 82 popsicles to be shared equally by 41 students in her class. All the boys were present but some girls were not in school that day due to a dance competition. After giving each student who was in class one extra popsicle each, Mrs Lew still had 1 popsicle left.	Do:not write in this space
	(a) How many girls were not in school?	
	(b) There were twice as many boys as girls who turned up in her class that day. What was the total number of girls in Mrs Lew's class?	
	·	
	· —	İ
].
		}
	Ans: (a) [2]	11 1
	(b)[2]	





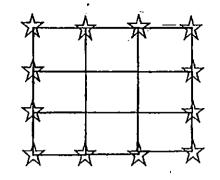


Figure 1

Figure 2

Figure 3

Figure Number	1	2	3	4	 15
Number of stars	4	8	12	(a)	
Number of rectangles	1	4	9		 (b)

(a) How many stars are there in Figure 4?

(b) How many rectangles are there in Figure 15?

(c) How many stars are there in the figure that has 729 rectangles?							
_							
•							
•							
, , , ,							
Ans: (a) [1]							
(b)[1]							
(c)[3]							
	- -						
End of Paper Please check your workings thoroughly!							

Primary School Test Paper Singapore



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SCHOOL: ROSYTH SCHOOL

SUBJECT: MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	3	2	3	1	2	3	11	1
Q11	Q12	Q13	Q14	Q15					
2	4	2.	3	4					

016.4221

$$Q1737 \rightarrow 30 - 18 \div 9 + 9, 30 - 2 + 9, 28 + 9 = 37$$

Q18.
$$\frac{1}{3} \rightarrow \frac{4}{12} = \frac{1}{3}$$

Q18.
$$\frac{1}{3} \rightarrow \frac{4}{12} = \frac{1}{3}$$
 Q19. 5.4 $\rightarrow 5\frac{3}{7} = \frac{38}{7}$

Q20. 37.5%
$$\Rightarrow \frac{3}{8} \times 100 = \frac{75}{2} = 37.5\%$$

Q21.
$$\$100 \Rightarrow$$
 A:S:L, 5:4:7, 7 – 4 = 3, 3u 60, 1u 60 ÷ 30 = 20, 5u 20 x 5 = 100

$$022.7:12 \rightarrow 20 + 4 = 24, 17 - 3 = 14, 24:14, 12:7$$

Q23.
$$\frac{3}{4}$$
 Shaded $\frac{4}{16}$, $\frac{16}{16}$ - $\frac{4}{16}$ = $\frac{12}{16}$, $\frac{6}{8}$ = $\frac{3}{4}$

Q24. Base: AB, Height: DC

025.32km $\rightarrow 160 \div 5 = 32$

Q26. 42cm² Q27.65°

Q28.40°

Q29. $10\% \rightarrow $15 \div 3 = $5, $5 \div 100 = $0.05, $0.50 \div $0.05 = 10$

Q30. 56.7m \rightarrow 10-1=9, 5-1=4, 25.2 ÷ 4 = 6.3, 9 x 6.3= 56.7

Q1. \$690

15+3=18 (I set)

 $828 \div 18 = 46$ (no. of sets)

 $46 \times 15 = 690$ (amount he saved)

Q2. \$7.20

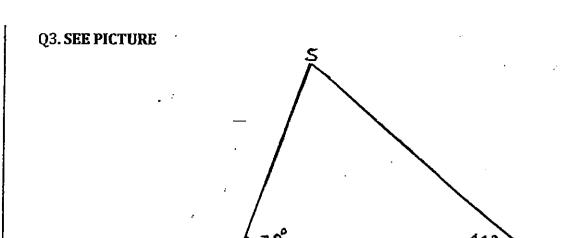
 $12 \times 8 = 96$

20 - 12 = 8 (rem b)

 $8 \times 6 = 48$ (price of 6b)

96 + 48 = 144 (total price)

 $144 \div 20 = 7.20$ (average price)



gcm

Q4. 11 litre 875ml 25 x25x25=15 625 (total capacity) 25 x 25 x 6 = 3750 (drained out) 15675 -3750=11875 (left) 11875cm³ = 11 875ml 11875ml = 11 litre 875ml

Q5. 1:14
A →S:US: TOTAL, 1:11:12
B→ S:US: TOTAL, 1:3:4
Unshaded area →1u
Unshaded area →11u +3u = 14u
S:US →1:14

Q6. 5632cm³ 64÷4=16, V 16x16x22=5632

Q7. 223 475 - 55 = 420 (5u) $5u \rightarrow 420$ $1u \rightarrow 420 \div 5 = 84$ $2u \rightarrow 84 \times 2 = 168$ 168 + 55 = 223 (m)

Q8. 302.5cm^2 1u+2u=3u (total units) $3u \rightarrow 33$ $1u \rightarrow 33 \div 3=11 \text{ (DG)}$ $2u \rightarrow 11 \times 2=22 \text{ (GC)}$ $A \rightarrow \frac{1}{2} \times 11 \times 30 = 165 \text{ (including c)}$ $B \rightarrow \frac{1}{2} \times 11 \times 30 = 165 \text{ (including c)}$ $C \rightarrow \frac{1}{2} \times 11 \times 5 = 27.5$ $165 \div 165=330 \text{ (A+B)}$ 330-27.5=302.5 (total shaded)

```
10 year's ago \rightarrow E:A:Diff 1:7:6

(E) \rightarrow3u - 1u = 2u, (A) 9u - 7u = 2u

2u \rightarrow10, 1u 10÷2=5

3u \rightarrow5 x 3 = 15

Q10. $5600

75% - 60% = 15% (diff btw saved)

15% \rightarrow $840

5% \rightarrow 840 ÷ 3 = 280

100% 280 x 20 = 5600 (monthly income)
```

```
Q11. 220

\frac{1}{4} of 1 = \frac{2}{3} of Y

\frac{3}{4} of 1 = \frac{6}{3} of Y

\frac{3}{4} of 1 + \frac{1}{3} of Y = 385

\frac{6}{3} of Y + \frac{1}{3} of Y 385

\frac{7}{3} of Y 385 ÷ 7 = 55

\frac{7}{3} of Y 55 x 2 = 110

110 x 2 = 220 (total given away)
```

```
Q12a. 160
4u - 3u = 1u (difference between A and C)
1u \rightarrow 8, 20u \rightarrow 8 \times 20 = 160 (total books donated)

Q12b. 16
7u - 3u = 4u (difference between D and C)
4u \rightarrow 8 \times 4 = 32
32 \div 2 = 16 (D must give C)
```

```
Q13a. $45

2C \rightarrow 2 \times 1u = 2u

1B \rightarrow 1u + 25

4S \rightarrow (1u + 412) \times 4 = 4u + 48

2u + 1u + 25 + 4u + 48 = 213

7u + 73 = 213

7u 213 - 73 = 140

1u \rightarrow 140 \div 7 = 20

20 \div 25 = 45

Q13b. $243

20 \div 2 = 10 (HP of 1C)

10 \times 3 = 30 (HP of 3c)

213 + 30 = 243
```

```
17x3=51 (total length of wire used)

5x4=20 (total perimeter of S)

6x3=18 ( total perimeter of ET)

51-20-18=13 ( Total perimeter of IT)

13-4=9 ( 2 sides)

2 sides → 9, 1 side → 9÷2=4.5
```

```
Q15a. $350

100\% \rightarrow 280 \text{ (ML)}

25\% \rightarrow 280 \div 4 = 70

125\% \rightarrow 70 \times 5 = 350 \text{ (MT)}

Q15b. 30\%

100\% - 12\% = 88\%

Mr Lim \rightarrow 88\% \times $2.80 = $246.40

Mr Tan \rightarrow $246.40 - $1.40 = $245

Tan's original sale \rightarrow $350

350 \rightarrow 100\%, \frac{105}{350} \times 100\% = 30\%
```

```
Q16a. \frac{9}{20}

\frac{2}{5} \times \frac{3}{4} = \frac{3}{10} (50 \text{ coins})

\frac{3}{5} \times \frac{3}{4} = \frac{9}{20} (\$1 \text{ coins})

Q16b. 240

Value of 1 set \Rightarrow (5x0.20) + (6 x 0.50) + (9x$1)= 1+3+9= $13

$156 ÷ $13 = 12 sets

total \Rightarrow 20u of coins

total no. of coins \Rightarrow 12 x 20 = 240
```

```
Q17a. 14

82 \div 41 = 2

2 + 1 = 3

3n + 1 = 82, n = 27, 41 - 27 = 14

Q17b. 23

41 - 14 = 27, 2u + 1u = 3u, 3u = 27, 1u = 9

total \rightarrow 14 + 9=23
```

```
Q18a. 16.4 + 12 = 16

Q18b. 225
(Rectangles) 15 \times 15 = 225

Q18c. 108 \text{ stars}
\sqrt{729} = 27, 27 \times 4 = 108
```