

Name : _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2012 Semestral Assessment One

Paper 1

Booklet A

8 May 2012

15 QUESTIONS

20 MARKS

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

The use of calculators is NOT allowed.

This booklet consists of 5 printed pages including the cover page.

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, 4) on the Optical Answer Sheet (OAS). [20 marks]

1) Which one of the following numbers has the digit 5 in the hundred thousands place?

(1) 2 954 287

(2) 2 805 427

(3) 2 509 827

(4) 2 049 527

2) Round off 708 702 to the nearest thousand.

(1) 710 000

(2) 709 000

(3) 708 000

(4) 700 000

3) $802 \times 900 = \underline{\hspace{2cm}}$ tens

(1) 729 800

(2) 721 800

(3) 72 980

(4) 72 180

4) $6\,734\,000 \div 700 = \underline{\hspace{2cm}}$.

(1) 962 000

(2) 96 200

(3) 9 620

(4) 962

- 9) Jenlyn cut a $\frac{9}{10}$ -m long ribbon into 3 shorter strips of the same length. What is the length of each strip of ribbon?

(1) $\frac{27}{10}$ m

(2) $\frac{10}{3}$ m

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

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

- 10) Yi Bing has 28 marbles. 16 of the marbles are red and the rest of them are blue. Find the ratio of the number of blue marbles to the total number of marbles.

(1) 3 : 7

(2) 4 : 7

(3) 3 : 4

(4) 4 : 3

- 11) Chef Keong bought $\frac{5}{9}$ ℓ of oil. He used $\frac{1}{3}$ ℓ to fry some vegetables. How many litres of oil did he have left?

(1) $\frac{10}{27}$ ℓ

(2) $\frac{2}{9}$ ℓ

(3) $\frac{1}{9}$ ℓ

(4) $\frac{5}{27}$ ℓ

- 12) Jolene had \$420. She spent $\frac{1}{5}$ of it on a bag and $\frac{2}{5}$ of the remainder on some food. How much money did she have left?

(1) \$252

(2) \$201.60

(3) \$168

(4) \$134.40

13) A box contained 32 blue balls and 24 green balls. Mrs Lim gave $\frac{1}{4}$ of the blue balls and $\frac{3}{8}$ of the green balls to her pupils. What is the ratio of the number of blue balls to the number of green balls left?

(1) 8 : 5

(2) 9 : 10

(3) 8 : 9

(4) 1 : 2

14) Steve had 21 packets of flour, each of mass 4 kg. He divided all the flour equally into 8 containers. What was the mass of the flour in each container?

(1) $10\frac{1}{2}$ kg

(2) $10\frac{1}{21}$ kg

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

(4) $1\frac{1}{21}$ kg

15) The height of a triangle is 124 cm. The base of the triangle is $\frac{1}{4}$ of its height. Find the area of the triangle.

(1) 3844 cm²

(2) 1922 cm²

(3) 93 cm²

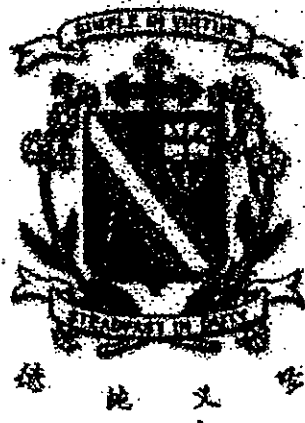
(4) 31 cm²

End of Booklet A

Name : _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2012 Semestral Assessment One

Paper 1

Booklet B

8 May 2012

15 QUESTIONS
20 MARKS

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

INSTRUCTIONS TO CANDIDATES

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

This booklet consists of 8 printed pages including the cover page.

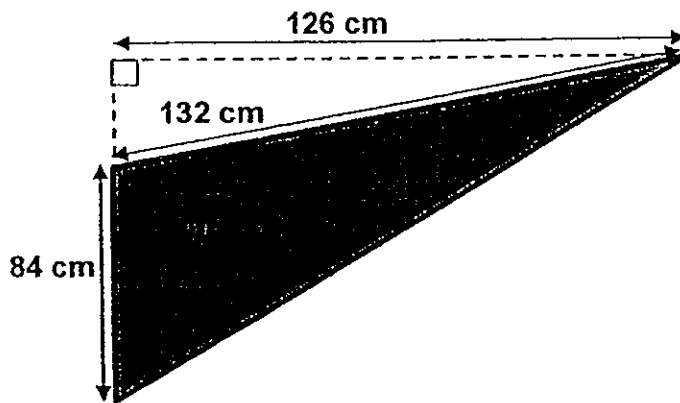
Questions 16 to 25 carry 1 mark each. Write down your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

Do not write in this space.

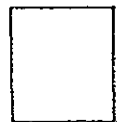
16) What is the value of $9 + (500 + 40) \div 2 \times 300$?

Ans : _____

17) The figure below is not drawn to scale. What is the area of the shaded triangle?



Ans : _____ cm²



Do not write in this space.

18) Sally bought 2 packets of sugar and 3 packets of salt. The mass of each packet of sugar and salt is $1\frac{3}{8}$ kg and $\frac{1}{10}$ kg respectively. What was the total mass of the sugar and salt

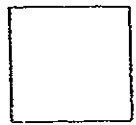
Ans : _____ kg

19) In a class, $\frac{5}{6}$ of the pupils are able to swim. Among those who are able to swim $\frac{1}{3}$ of them are girls. What fraction of the class are boys who are able to swim? (Leave your answer in the simplest form.)

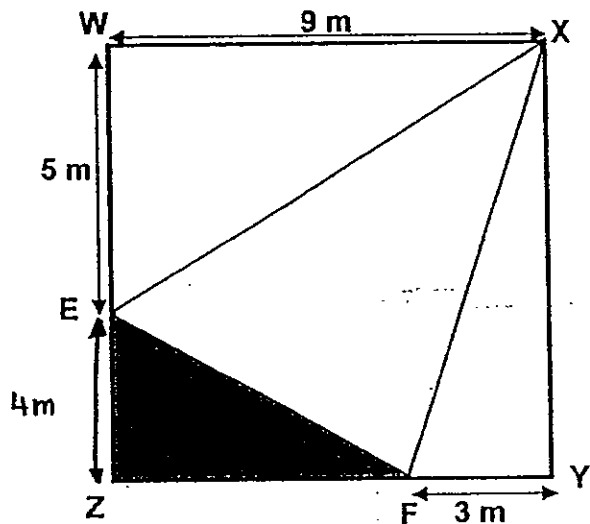
Ans : _____

20) Express $11\frac{5}{6}$ as a decimal correct to 2 decimal places.

Ans : _____



- 21) The figure below, not drawn to scale, shows a square WXYZ. What is the area of the Triangle EZF?

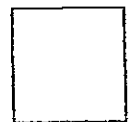


Do not write in this space.

Ans : _____ m²

- 22) Julianna packed 137 kg of strawberries equally into 8 baskets. What is the mass of the strawberries in each basket? Express your answer as a mixed number.

Ans : _____ kg



- 23) Baker Aloysious had $\frac{5}{9}$ of a cake. He shared the cake equally with 4 customers. What fraction of the cake did each customer get?

Do not write in this space.

Ans : _____

- 24) The ratio of Willis' mass to Leroy's mass is 6 : 11. If Willis' mass is 66 kg, what is their total mass?

Ans : _____ kg

- 25) Josephine had \$120. She spent \$38 and saved the rest of the money. What is the ratio of the amount of money she spent to the amount of money she saved? Express your answer in the simplest form.

Ans : _____



Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. [10 marks]

Do not write in this space.

- 26) Megan bought a durian and a bag of mangosteens at a fruit stall. The bag of mangosteens is $5\frac{2}{9}$ kg lighter than the durian. If the mass of the bag of mangosteens is $3\frac{2}{3}$ kg, what is the total mass of the fruits?

Ans : _____ kg

- 27) Ceelo had some paint. He used $\frac{5}{6}$ of it for his living room and $\frac{2}{3}$ of the remaining paint for the toilet. What fraction of the paint did he have left?

Ans : _____



- 28) Quinny spent $4\frac{1}{6}$ h ironing her clothes. Heidi spent $1\frac{3}{8}$ h less than Quinny on the same household chore. How much time did they spend on ironing altogether?

Do not write in this space.

Ans : _____ h

- 29) Amanda baked chocolate, vanilla and strawberry muffins. $\frac{1}{3}$ of them were chocolate muffins and $\frac{3}{5}$ of the rest were vanilla muffins. If she had baked 54 vanilla muffins, how many strawberry muffins did she bake?

Ans : _____



30) The perimeter of a rectangle is 72 cm. If the ratio of its length to its breadth is 3 : 1, find the area of the rectangle.

Do not
write in
this space.

Ans : _____ cm²

End of Paper 1



Name: _____ ()

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)



Primary 5 Mathematics

2012 Semestral Assessment One

Paper 2

8 May 2012

Parent's Guardian's Signature

Paper 1	40
Paper 2	60
Total Mark	100

18 QUESTIONS

60 MARKS

TOTAL TIME FOR PAPER 2: 1 HOUR 40 MINUTES

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

The use of an approved calculator is expected, where appropriate.

This booklet consists of 13 printed pages including the cover page.

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

Do not write in this space.

- 1) 248 tourists visited a carnival. The entrance fees were priced at \$16 for each adult and \$9 for each child. $\frac{1}{4}$ of the tourists were adults. How much did they pay altogether?

Ans : \$ _____

- 2) Joan had \$1382 and her brother had \$428. After their father gave each of them an equal amount of money, Joan had twice as much money as her brother. How much did their father give each of them?

Ans : \$ _____



- 3) Adif had shirts of three different colours. $\frac{3}{7}$ of his shirts were green and $\frac{5}{6}$ of the remainder were yellow. The rest of his shirts were blue. What fraction of his shirts were blue?

Do not write in this space.

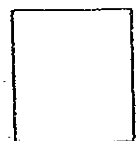
Ans : _____

- 4) 1 kg of prawns cost \$10.40 and 1 kg of fish cost \$8.60. How much did Gin Li pay for $8\frac{3}{4}$ kg of prawns and $6\frac{1}{5}$ kg of fish altogether?

Ans : \$ _____

- 5) Some orange cordial and water are mixed in the ratio 6 : 19. The volume of water in the mixture is 4 864 ml. What is the total volume of the mixture?

Ans : _____ ml



For questions 6 to 18, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets () at the end of each question or part-question.

[50 marks]

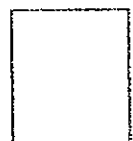
Do not write in this space.

- 6) A snail was at the bottom of a 10-m deep well. In the first 15 minutes, it climbed $3\frac{2}{9}$ m, in the next 10 minutes, it climbed $2\frac{5}{6}$ m. How far was the snail from the top of the well after 25 minutes?

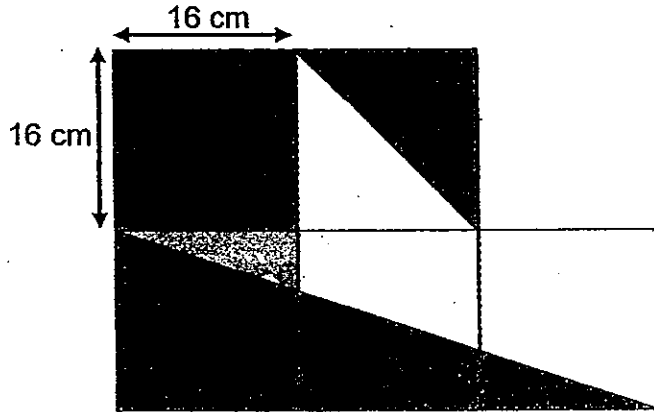
Ans: _____ (3 m)

- 7) Corice's family consumes $18\frac{2}{7}$ kg of rice every month. The cost of 1 kg of rice is \$3.20. Find the cost of the rice her family consumes in 2 years. Round off your answer to the nearest hundred dollars.

Ans: _____ (3 m)



- 8) The figure below is made up of 5 squares each of side 16 cm. Find the area of the unshaded parts.

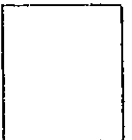


Do not write in this space.

Ans: _____ (3 m)

- 9) The ratio of the height of a triangle to the base of the triangle is 7 : 9. If the height of the triangle is 63 cm, what is the area of the triangle?

Ans: _____ (3 m)



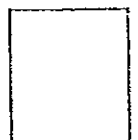
- 10) Last week, Lohan spent a total of 8 hours exercising. He spent $\frac{1}{3}$ of the time on yoga and $\frac{5}{12}$ of the time on kick-boxing. He spent the rest of the time cycling. How many minutes did he spend cycling?

Do not write in this space.

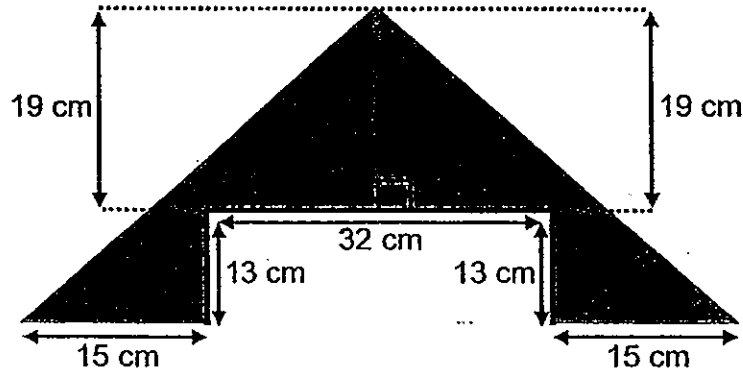
Ans: _____ (3 m)

- 11) Tilak bought a plot of land with an area of $\frac{8}{9}$ km². He sold $\frac{2}{5}$ km² of the land and divided the remaining land equally into 11 small plots. What was the total area of 7 such small plots of land?

Ans: _____ (3 m)

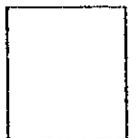


- 12) A rectangle of length 32 cm and breadth 13 cm was cut out from a triangular piece of paper as shown in the figure below. Find the area of the remaining piece of paper that is shown below.

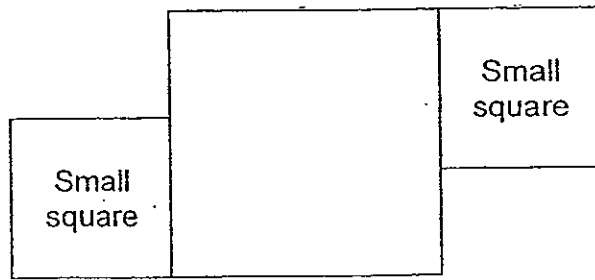


Do not write in this space.

Ans: _____ (4 m)

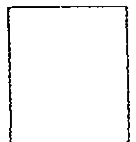


- 13) The figure below shows 2 small squares, with a perimeter of 24 m each, being joined to a big square. The ratio of the perimeter of one small square to the perimeter of the big square is 3 : 5. Find the area of the figure.



Do not write in this space.

Ans: _____ (4 m)



- 14) Olivia bought $15\frac{3}{5}$ kg of sweets and $29\frac{1}{4}$ kg of chocolates. She mixed them up and packed them equally into 31 packets, each with a mass of 1.41 kg. Each packet was sold at \$7.20 and the remaining sweets and chocolates were sold at \$9 per kg. How much did she collect from all the sweets and chocolate sold?

Do not
write in
this space.

Ans: _____ (4 m)



- 15) Calise spent \$1485 on 9 identical handbags and 3 identical pairs of shoes. Sherlynn spent \$867 less than Calise on 2 such handbags and 6 such pairs of shoes. What was the total cost of 3 such handbags and 2 such pairs of shoes?

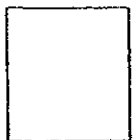
Do not write in this space.

Ans: _____ (5 m)

- 16) Tank A and Tank B contained 30 602 m^l of water. When 2896 m^l of water was transferred from Tank A to Tank B, and 1235 m^l of water leaked from Tank B, the ratio of the amount of water in Tank A to the amount of water in Tank B was 6 : 7. How much water did Tank B contain at first?

Do not write in this space.

Ans: _____ (5 m)



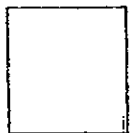
17) Farmer Poh bought a plot of land. He planted carrots on $\frac{3}{8}$ of the land and tomatoes on $\frac{1}{3}$ of the land. He planted long beans on $\frac{4}{7}$ of the remaining plot of land.

Do not write in this space.

- a) What fraction of the land was not used for planting?
- b) If 195.75 m^2 of land was not used for planting, what was the area of land he used to plant the tomatoes?

Ans: (a) _____ (3 m)

(b) _____ (2 m)

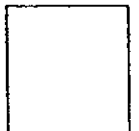


- 18) Joseph and Reilly had the same number of picture cards at first. After selling some of their cards at the same price, Joseph had 262 cards left. The ratio of the number of Joseph's cards left to the number of Reilly's cards left was 2 : 5. Reilly collected \$1179 less than Joseph for the cards sold. If Joseph collected \$2829 in all for all the cards sold, how many cards did each boy have at first?

Do not write in this space.

Ans: _____ (5 m)

End of Paper 2





ExamSutra 考试圣经

Answer Sheets

EXAM PAPER 2012

SCHOOL : CHIJ

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

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

16) 81009

$$17) \frac{1}{2} \times 126 \times 84 = 5292$$

$$18) \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \frac{3}{10}$$

$$\frac{13}{8} \times 2 = \frac{26}{8}$$

$$\frac{26}{8} + \frac{3}{10} = \frac{260}{80} + \frac{24}{80}$$

$$= \frac{34}{80} = \frac{31}{20} \text{kg}$$

$$19) \frac{10}{18} = \frac{5}{9}$$

$$20) 11\frac{5}{6} \approx 11.83$$

$$21) 9 - 3 = 6$$

$$9 - 5 = 4$$

$$\frac{1}{2} \times 4 \times 6 = 12 \text{m}^2$$

$$22) 137 \div 8 = 17\frac{1}{8} \text{kg}$$

$$23) \frac{5}{9} \div 5 = \frac{1}{9}$$

$$24) 66 \div 6 = 11$$

$$11 \times (6 + 11) = 187 \text{kg}$$

$$25) 120 - 38 = 82$$

$$38 : 82$$

$$19 \ 41$$

$$26) 3\frac{2}{3}\text{kg} + 5\frac{2}{9}\text{kg} = 3\frac{6}{9}\text{kg} + 5\frac{2}{9}\text{kg} = 8\frac{8}{9}\text{kg} \text{ (durian)}$$

$$8\frac{8}{9}\text{kg} + 3\frac{2}{3}\text{kg} = 8\frac{8}{9}\text{kg} + 3\frac{6}{9}$$

$$= 11\frac{14}{9}\text{kg} = 12\frac{5}{9}\text{kg}$$

The total mass of the fruits is $12\frac{5}{9}\text{kg}$.

$$27) \quad 5/6 \text{ living room}$$

Total

$$1/6$$

$$2/3 \times 1/6 = 2/18 \text{ (toilet)}$$

$$1/3 \times 1/6 = 1/18 \text{ (left)}$$

He had $1/18$ of the paint left.

$$28) 4\frac{1}{6} + 4\frac{1}{6} = \frac{82}{6} = 8\frac{1}{3}$$

$$8\frac{1}{3} - 1\frac{3}{8} = \frac{78}{24} - \frac{9}{24}$$

$$= \frac{632}{24} - \frac{9}{24} = \frac{623}{24}\text{h}$$

They spent $\frac{623}{24}\text{h}$ on ironing altogether.

$$29) 54 \div 6 = 9$$

$$9 \times 4 = 36$$

She baked 36 strawberry muffins.

$$30) 72 \div 8 = 9$$

$$9 \times 3 = 27$$

$$27 \times 9 = 243\text{cm}^2$$

The area of the rectangle is 243cm^2

Paper 2

$$1) 248 \div 4 = 62$$

$$248 - 62 = 186$$

$$62 \times 16 = 992$$

$$186 \times 9 = 1674$$

$$992 + 1674 = \$2666$$

They paid \$2666 altogether.

$$2) \$1382 - \$428 = \$954$$

$$(\$954 \times 2) - \$1382 = \$526$$

Their father gave each of them \$526.

3) $6 \times 7 = 42$

$4/42 = 2/21$

2/21 of his shirts were blue.

4) $10.4 \div 4 = 2.6$

$8.6 \div 5 = 1.72$

$2.6 \times 3 = 7.8$

$10.4 \times 8 = 83.2$

$7.8 + 83.2 = 91$

$1.72 (6 \times 86) = 53.32$

$53.32 + 91 = \$144.32$

Gin Li paid \$144.32

5) $19u \rightarrow 4864\text{ml}$

$1u \rightarrow 4846\text{ml} \div 19 = 256\text{ml}$

$6u + 19u = 25u$

$25u \rightarrow 256\text{ml} \times 25 = 6400\text{ml}$

The total volume is 6400ml.

6) $10\text{m} - (32/9\text{m} + 25/6\text{m}) = 317/18\text{m}$

The snail was $317/18\text{m}$ from the top of the well.

7) $182/7 \times 3.2 = 5818/35$

$5818/35 \times 24 = 140412/35 \approx 1400$

The cost of the rice is \$1400

8) $1/2 \times (16 \times 4) \times 16$

$= 1/2 \times 64 \times 16 = 512\text{cm}^2$

The area is 512cm^2

9) $63 \div 7 = 9$

$9 \times 9 = 81$

$1/2 \times 63 \times 81 = 2551.5\text{cm}^2$

The area is 2551.5cm^2

10) $8 \div 3 = 22/3$

$8 \div 12 = 2/3$

$2/3 \times 5 = 31/3$

$8 - 31/3 - 22/3 = 2$

$2\text{h} = 120\text{min}$

He spent 120 minutes cycling.

$$11) 8/9 - 2/5 = 22/45$$

$$22/45 \div 11 = 2/45$$

$$2/45 \times 7 = 14/45 \text{ km}^2$$

The total area is $14/45 \text{ km}^2$

$$12) 19 + 13 = 32$$

$$32 + 15 + 15 = 62$$

$$1/2 \times 32 \times 62 = 992$$

$$992 - (13 \times 32) = 576 \text{ cm}^2$$

The area is 576 cm^2

$$13) 24 \div 3 = 8$$

$$8 \times 5 = 40$$

$$10 \times 10 = 100$$

$$6 \times 6 = 36$$

$$36 + 100 = 136$$

$$136 + 36 = 172 \text{ m}^2$$

The area is 172 m^2

$$14) 15\frac{3}{5} + 29\frac{1}{4} = 44\frac{17}{20}$$

$$1.41 \times 31 = 43.71$$

$$44\frac{17}{20} - 43.71 = 1.14$$

$$7.2 \times 31 = 22.31\frac{1}{5} = 223.2$$

$$9 \div 100 = 0.09$$

$$0.09 \times 14 = 1.26$$

$$1.26 + 9 = 10.26$$

$$10.26 + 223.2 = \$233.46$$

She collected $\$223.46$ -

$$15) 9H + 3S = \$1485$$

$$\$1485 - \$867 = \$618$$

$$- 2H + 6S = \$618$$

$$7H - 3S = \$867$$

$$\$1485 + \$867 = \$2352$$

$$\$2352 \div \$867 = \$2352$$

$$\$2352 \div 16 = \$147 \text{ (1 Handbag)}$$

$$\$618 - (\$147 \times 2) = \$324$$

$$\$324 \div 6 = \$54 \text{ (1 shoe)}$$

$$(\$147 \times 3) + (\$54 \times 2) = \$549$$

The total cost is $\$549$

16) $30602\text{ml} - 1235\text{ml} = 29367\text{ml}$
 $29367\text{ml} \div 13 = 2259\text{ml}$
 $(2259 \times 7) + 1235\text{ml} - 2896\text{ml} = 14152\text{ml}$
Tank B contained 14152ml.

17)a) $1 - \frac{3}{8} - \frac{1}{3} = \frac{7}{24}$
 $\frac{7}{24} \times \frac{4}{7} = \frac{1}{6}$
 $\frac{7}{24} - \frac{1}{6} = \frac{1}{8}$
 $\frac{1}{8}$ of the land was not used for planting.

b) $\frac{1}{8} = \frac{3}{24} \rightarrow 195.75\text{m}^2$
 $\frac{1}{24} \rightarrow 195.75\text{m}^2 \div 3 = 65.25\text{m}^2$
 $\frac{8}{24} \rightarrow 65.25\text{m}^2 \times 8 = 522\text{m}^2$
The area was 522m²

18) $262 \div 2 = 131$
 $131 \times 3 = 393$
 $1179 \div 393 = 3$
 $2829 \div 3 = 943$
 $943 = 262 = 1205$
Each boy had 1205 cards at first.

