

SINGAPORE CHINESE GIRLS' SCHOOL
FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____

Class : Primary

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		20
Paper 2			60
Total Marks			100

Parent's Signature

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions.

You are not allowed to use a calculator.

Booklet A

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 In 245 380.19, what does the digit 9 stand for?

- (1) 9 hundredths
- (2) 9 tenths
- (3) 9 ones
- (4) 9 tens

2 How many eighths are there in $2\frac{5}{8}$?

- (1) 15
- (2) 18
- (3) 21
- (4) 25

3 $330\,303 = 300\,000 + 30\,000 + \square + 3$

What is the missing number in the box?

- (1) 0
- (2) 30
- (3) 300
- (4) 303

4 6290 is 10 tens less than _____.

- (1) 6190
- (2) 6280
- (3) 6300
- (4) 6390

5 $33 \times 10 =$ _____

- (1) $30 + 2 + 1 \times 10$
- (2) $30 + 3 \times 10$
- (3) $33 \times 5 + 5$
- (4) $(30 \times 10) + (3 \times 10)$

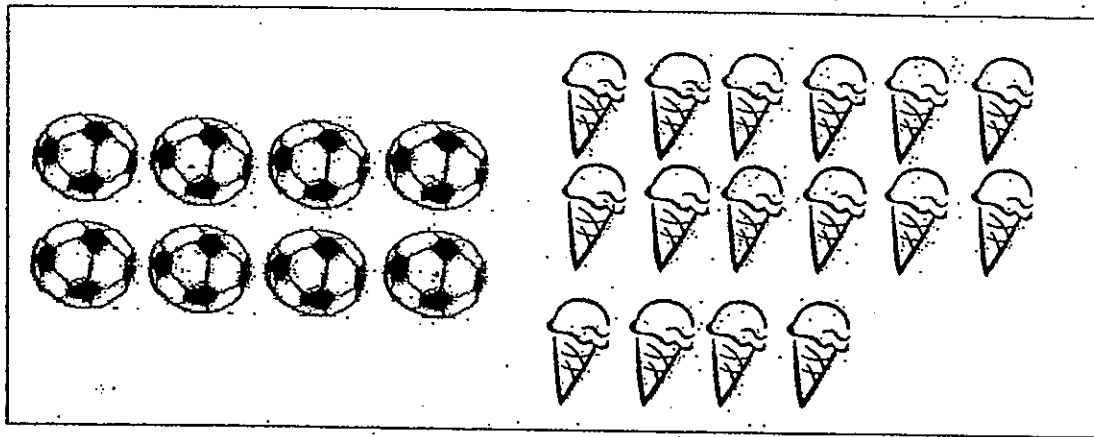
6 $34 \div 7 =$

- (1) $\frac{7}{34}$
- (2) $3\frac{4}{7}$
- (3) $4\frac{6}{7}$
- (4) $30\frac{4}{7}$

7 The price of a car was \$82 000 after being rounded off to the nearest thousand.
Which of the following can be the original price of the car?

- (1) \$81.400
- (2) \$81_499
- (3) \$82_499
- (4) \$82 505

- 8 Find the ratio of the number of soccer balls to the number of cones of ice-cream.
Express your answer in its simplest form.



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

- 9 $\frac{4}{5} \div 4$ is the same as _____

- (1) $\frac{4}{5} \times \frac{1}{4}$
 (2) $\frac{5}{4} \times \frac{1}{4}$
 (3) $\frac{5}{4} \times \frac{4}{1}$
 (4) $\frac{4}{1} \times \frac{4}{5}$

10 Which of the following is the same as 7090 g?

- (1) 7 kg 9 g
- (2) 7 kg 90 g
- (3) 70 kg 9 g
- (4) 70 kg 90 g

11 Study the pattern below.

1 2 3 4 1 2 3 4 1 2 3 ?
1st

What will be the 354th digit?

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

12 Tom ran a distance of $\frac{4}{5}$ km and Jane ran $\frac{1}{2}$ of the distance Tom ran. What was the total distance ran by both of them?

- (1) $\frac{3}{10}$ km
- (2) $1\frac{3}{10}$ km
- (3) $1\frac{1}{5}$ km
- (4) $1\frac{2}{5}$ km

13 The total length of 4 ropes is 1020 cm. The length of one of the ropes is 150 cm. What is the average length of the other 3 ropes?

- (1) 190 cm
- (2) 255 cm
- (3) 290 cm
- (4) 340 cm

14 The postage charge for sending a parcel within Country J is shown below.

First 250 g	\$6.60
Additional 125g or part thereof	\$3.25

What is the postage charge for sending a parcel which weighs 1500 g to Country J?

- (1) \$32.50
- (2) \$39.10
- (3) \$66.60
- (4) \$62.65

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____ ()

Class : Primary

Paper 1	Mark attained	Max Mark
Booklet B		20

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

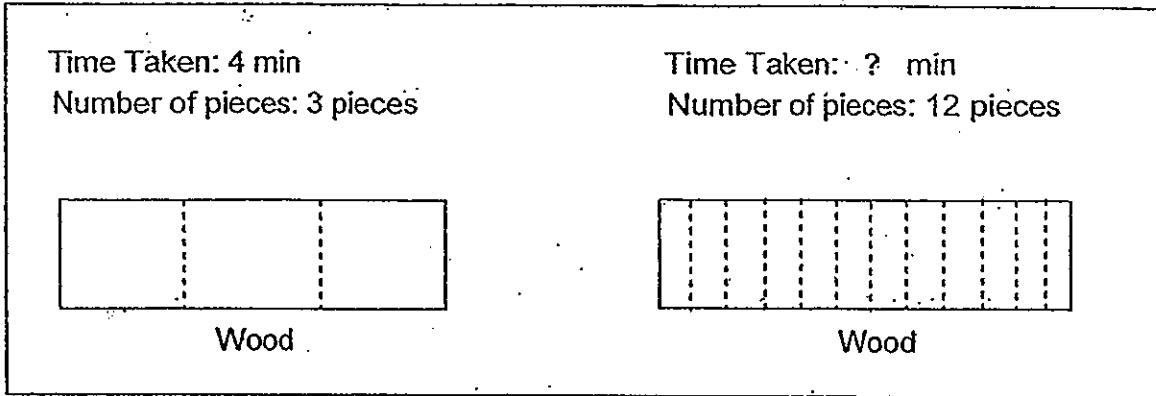
Follow all instructions carefully.

Answer all questions.

You are not allowed to use a calculator.

- 15 Mary has a thick piece of rectangular wood. She took 4 minutes to cut it into 3 equal pieces. How long does it take for her to cut it into 12 equal pieces if she takes the same amount of time to cut each piece?

Note: The cuts were made in the same direction as shown below.



- (1) 12 min
- (2) 16 min
- (3) 22 min
- (4) 24 min

Booklet B.

Name: _____ ()

Do not write in
this column

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. (10marks)

16. Write 3 782 456 in words.

Ans: _____

17. $24\ 000 \div 60 =$ _____

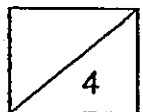
Ans: _____

18. $18 - 2 \times 3 + 24 \div 2 =$ _____

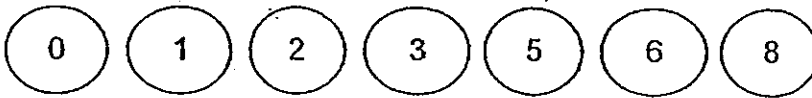
Ans: _____

19. Find the difference between $5\frac{7}{12}$ and $2\frac{3}{4}$.

Ans: _____



20. Use all the digits below to form the greatest 7 digit odd number. You can only use each digit once.



Do not write in this column

Ans: _____

21. Express $2\frac{11}{25}$ as a decimal.

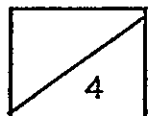
Ans: _____

22. Express 10 km 5 m in metres.

Ans: _____ m

23. What are the common factors of 30 and 48?

Ans: _____

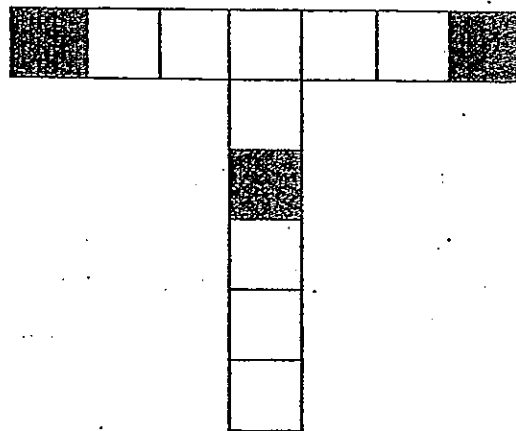


24. The number of girls in class 3P is $\frac{3}{7}$ of the total number of boys and girls in class 3P. What is the ratio of the number of boys to the number of girls?

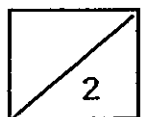
Do not write in this column

Ans: _____

25. Study the figure below. How many more squares must be shaded so that only $\frac{1}{3}$ of the figure is left unshaded?



Ans: _____



Questions 26 to 30 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.

Do not write in this column

(10 marks)

26. When a number is divided by 7, the quotient is 472. What is the quotient when the same number is divided by 8?

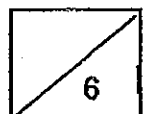
Ans: _____

27. Complete the number pattern below.

Ans: _____

28. Tommy is 6 years old. His mother is 24 years older than he. In how many years' time will Tommy's mother be four times as old as he?

Ans: _____



SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2013

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____ (. .)

Class : Primary 5

	Mark	Max Mark
Paper 2		60

Parent's Signature

18 Questions
60 Marks

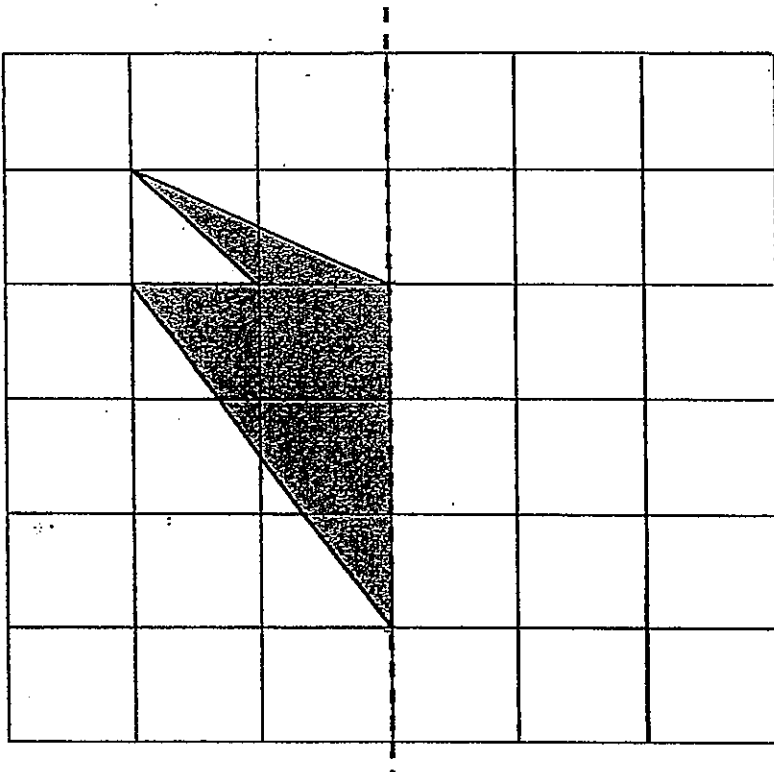
Total Time For Paper 2: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

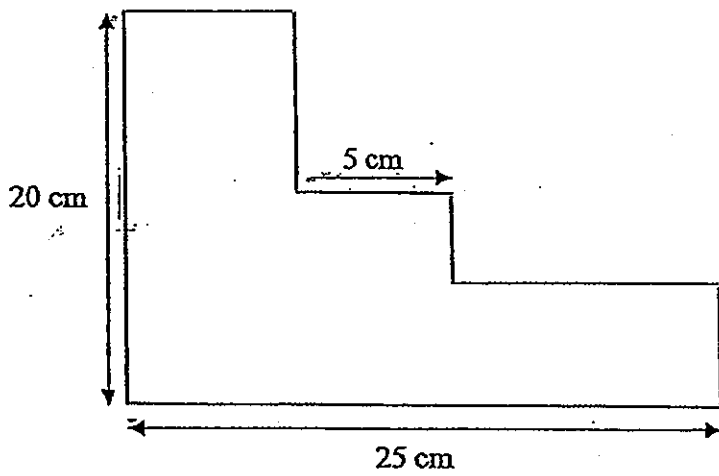
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

29. Complete the figure using the dotted line as the line of symmetry.

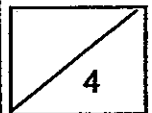
Do not write in this column



30. Find the perimeter of the figure.



Ans: _____



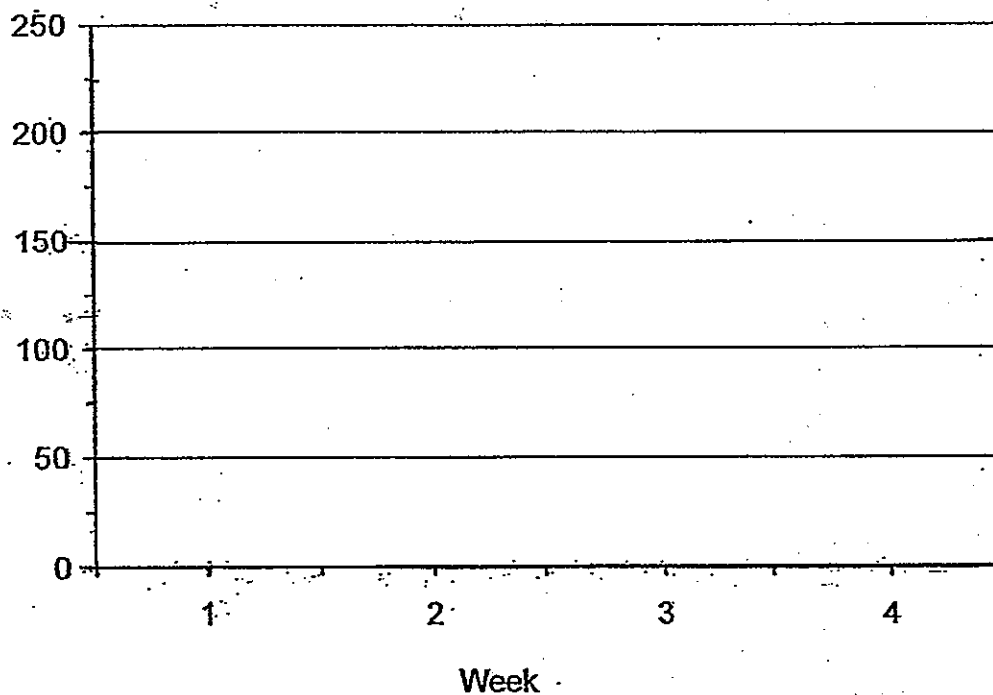
- 3 An aeroplane departed Singapore and arrived in Hong Kong at 2.35 am.
The flight took 3h 50 min. At what time did the aeroplane depart Singapore?

Do not write in
this column

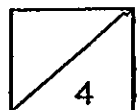
Ans: _____

The line graph shows the number of dogs sold at a shop in the last 4 weeks.
How many more dogs were sold in Week 2 than Week 3?

Number of dogs sold



Ans: _____



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

Do not write in this column

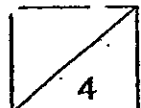
(10 marks)

- 1 Ashley bought 385 marbles. She packed all the marbles into boxes of 9 with some left unpacked. How many marbles were left unpacked?

Ans: _____

- 2 A watch and a pen cost \$38.50. A watch and a teddy bear cost \$68.95. A pen and a teddy bear cost \$39.99. Find the total cost of a watch, a pen and a teddy bear.

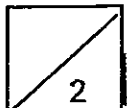
Ans: _____



- 5 Joyce had 168 beads. She gave $\frac{1}{3}$ of her beads to her friends, Valerie and Jane. Valerie and Jane received the same number of beads from Joyce. How many beads did each friend receive?

Do not write in
this column

Ans: _____



For questions 6 to 18, show your working clearly and write your answers in the spaces provided. The number of marks awarded is shown in brackets [] at the end of each question or part-question. (50 marks)

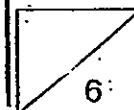
Do not write in this column

- 6 Joan, Mabel and Grace picked up 902 seashells from the beach. The mass of 50 seashells is $\frac{3}{8}$ kg. What is the total mass of the seashells they had picked? Express your answer as a decimal, correct to 2 decimal places. Give your answer in kg.

Ans: _____ [3]

- 7 Box A can hold either 60 small books or 48 big books. If there are already 10 small books and 12 big books in Box A, how many more big books can Box A still hold?

Ans: _____ [3]



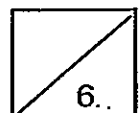
Do not write in
this column

- 8 $\frac{3}{8}$ of spectators at a basketball match are children. There are 360 more adults than children. The ratio of women to men is 2:7. How many more men than women are there at the basketball match?

Ans: _____ [3]

- 9 Jane bought some stickers in her school bookshop and decided to share some with her friends. If she gave each friend 15 stickers, she would have 6 stickers left. If she gave each of them 17 stickers, she would be short of 4 stickers. How many friends did Jane have?

Ans: _____ [3]



- 10 The table below shows the number of people and the number of passes in Driving Test in 4 driving centres.

Do not write in this column

- (a) Which centre has the highest fraction of passes in Driving Test?
(b) What is the overall fraction of passes in Driving Test for the 4 centres?

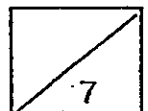
Driving Centres	Woodlands	Jurong	Cathay	Bedok
Number of people.	250	360	380	220
Number of passes in Driving Test	210	210	210	210

Ans: a) _____ [1]

b) _____ [2]

- 11 May and Faith had the same number of beads at first. May gave $\frac{3}{4}$ of her beads away and Faith gave $\frac{1}{3}$ of her beads away. May had 15 beads less than Faith after that. How many beads did May give away?

_____ [4]



- 12 A dress cost twice as much as a skirt. A jacket cost $1\frac{1}{2}$ times as much as a dress. Mrs Wong paid \$1360 for 2 skirts, 3 dresses and 4 jackets.

- (a) Find the cost of a skirt.
(b) Find the cost of a jacket.

Do not write in
this column

Ans. a) _____ [3]
b) _____ [1]

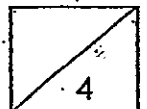
- 13 Clara bought 340 red and blue pens. $\frac{2}{5}$ of the red pens is equal to $\frac{4}{7}$ of the blue pens. If she paid \$1.25 for each red pen, how much did she pay for all the red pens?

Ans: _____ [4]

14. Zoë uses $\frac{1}{3}$ of her money to buy a dress and $\frac{1}{4}$ of the remaining amount to buy some magazines. After that, she uses $\frac{2}{5}$ of the rest of the money to buy a present. If she has \$54 left, how much money did she spend on the magazines?

Do not write in
this column

Ans: _____ [4]



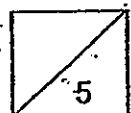
15 The ratio of the number of chickens to the number of cows on a farm is 7 : 5. These animals had a total of 272 legs.

Do not write in
this column

- (a) How many chickens are there on the farm?
- (b) After selling some chickens, the ratio of the number of chickens to the number of cows left became 9 : 10. How many chickens were sold?

Ans: a) _____ [3]

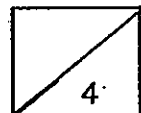
b) _____ [2]



- 16 Noel and Kim went shopping with \$360 and \$240 respectively. Kim spent thrice as much as Noel. After shopping, the amount of money Noel had left was thrice that of kim. How much did they spend altogether?

Do not write in
this column

Ans: _____ [4]



17

The following patterns are made up of white and coloured circles.

Do not write in this column



Figure 1:

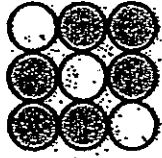


Figure 2:

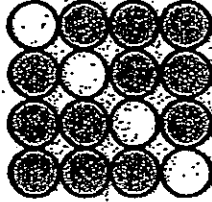


Figure 3:

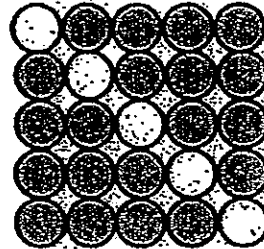


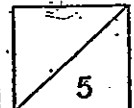
Figure 4:

- (a) How many white circles will there be in Figure 88?
- (b) How many coloured circles will there be in Figure 88?
- (c) Which figure is made up of 144 circles?

Ans: a) _____ [1]

b) _____ [2]

c) _____ [2]

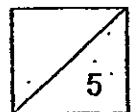


- 18 Tom has 2 bags of rubber balls. Bag A contains 192 more rubber balls than Bag B. Tom transfers 570 rubber balls from Bag A to Bag B. Now Bag B contains 4 times as many rubber balls as Bag A. How many rubber balls are there in each bag at first?

Do not write in
this column

Ans: Bag A _____ [3]

Bag B _____ [2]



End of Paper
— CHECK YOUR WORK CAREFULLY —

Exam Paper 2013 Answer Sheet

School: SINGAPORE CHINESE GIRLS' SCHOOL

Subject: PRIMARY 5 MATHEMATICS

Term: SA1

Paper 1

1)	1	6)	3	11)	2
2)	3	7)	3	12)	3
3)	3	8)	1	13)	3
4)	4	9)	1	14)	2
5)	4	10)	2	15)	3

16. Three million, seven hundred and eighty-two thousand, four hundred and fifty-six

17. 400

18. 24

19. 25%

20. 8653201

21. 2.44

22. 10005

23. 1, 2, 3 and 6

24. 4 : 3

25. 5

26. The no. is $\rightarrow 472 \times 7 = 3304$

Quotient $\rightarrow 3304 \div 8 = 413$

27. $8.45 - 8.2 = 0.25$

$7.7 - 7.45 = 0.25$

$8.2 - 0.25 = 7.95$

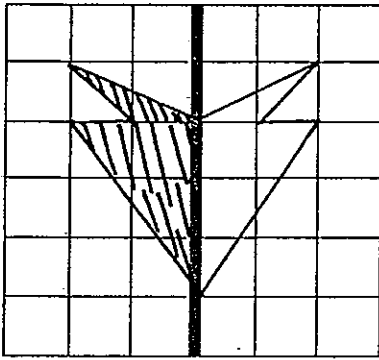
28. $3u \rightarrow 24$

$1u \rightarrow 8$

$8 - 6 = 2$



29.



$$30. \begin{aligned} 25 \times 2 &= 50 \\ 20 \times 2 &= 40 \\ 50 + 40 &= 90 \end{aligned}$$

Paper 2

1. Left unpacked $\rightarrow 385 \div 9 = 42 \text{ R } 7$
 $\text{R} \rightarrow$ left unpacked
 Therefore **7 marbles** were left unpacked.
2. $2 \text{ pen} + 2 \text{ watches} + 2 \text{ teddy} = \$38.50 + \$68.95 + \39.99
 $= \$147.44$
 $\$147.44 \div 2 = \73.72
3. Time aeroplane depart Spore in hrs $\rightarrow 2.35 \text{ a.m.} - 3\text{h} = 11.35 \text{ p.m.}$
 Time aeroplane depart Spore $\rightarrow 11.35 \text{ p.m.} - 50 \text{ min}$
 $= 11.00 \text{ p.m.} - 15 \text{ mins}$
 $= \mathbf{10.45 \text{ p.m.}}$
4. $225 - 150 = 75 \text{ dogs}$
5. Gave friends $\rightarrow 168 \times \frac{1}{3} = 56 \text{ beads}$
 Left $\rightarrow 168 - 56 = 112 \text{ beads}$
 Each $\rightarrow 56 \div 2 = 28 \text{ beads}$
6. $\frac{8}{8} = 1 \text{ kg}$
 $1 \text{ kg} = 1000 \text{ g}$
 $1\text{u} \rightarrow 1000 \div 8 = 125 \text{ g}$
 $\frac{3}{8} \rightarrow 125 \times 3 = 375 \text{ g}$
 $50 \text{ seashells} \rightarrow 375 \text{ g}$
 $1 \text{ seashell} \rightarrow 375 \div 50 = 7.5 \text{ g}$
 $902 \div 50 = 18 \text{ R } 2$
 $18 \times 375 = 6750 \text{ g}$
 $7.5 \times 2 = 15 \text{ g}$
 $6750 + 15 = 6765 \text{ g}$
 $= 6.765 \text{ kg}$
 $= \mathbf{6.77 \text{ kg}}$

10113

10114

10115

10116

10117

10118

10119

10120

10121

10122

10123

10124

10125

10126

10127

10128

10129

10130

10131

10132

10133

10134

10135

10136

10137

10138

10139

10140

10141

10142

10143

10144

10145

10146

10147

10148

10149

10150

10151

10152

10153

10154

10155

7. $\frac{48}{60} = \frac{4}{5}$

$\frac{4}{5} \times 10 = 8$

$48 - (8 + 12) = 28$

8. $3u \rightarrow$ Children

$8u - 3u = 5u$

$5u \rightarrow$ Adults

$5u - 3u = 2u$

W : M

2 : 7

$2u \rightarrow 360$

$1u \rightarrow 360 \div 2 = 180$

Adults $\rightarrow 180 \times 5 = 900$

$7 + 2 = 9$

1 part $\rightarrow 900 \div 9 = 100$

Women $\rightarrow 100 \times 2 = 200$

Men $\rightarrow 100 \times 7 = 700$

Difference $\rightarrow 700 - 200 = 500$

9. $17 - 15 = 2$

$4 \div 2 = 2$

$75 + 6 = 81$

$85 - 4 = 81$

$6 + 4 = 10$

$10 \div 2 = 5$

10.(a) Bedok

(b) Total passes $\rightarrow 210 \times 4 = 840$

Total no. of people $\rightarrow 250 + 360 + 380 + 220 = 1210$

Overall fraction = $\frac{84}{121}$

11. $\frac{3}{4} - \frac{1}{3} = \frac{5}{12}$

$\frac{5}{12}$ of beads $\rightarrow 15$ beads

$\frac{1}{12}$ of beads $\rightarrow 15 \div 5 = 3$

$\frac{9}{12}$ of beads $\rightarrow 3 \times 9 = 27$

12.(a) Total units $\rightarrow 2 \times 1 + 2 \times 3 + 4 \times 3 = 20$

$20u \rightarrow \$1360$

$1u \rightarrow 1360 \div 20 = \68 (Cost of a skirt)

(b) Jacket $\rightarrow 68 \times 3 = \204

13. $340 \div 17 = 20$

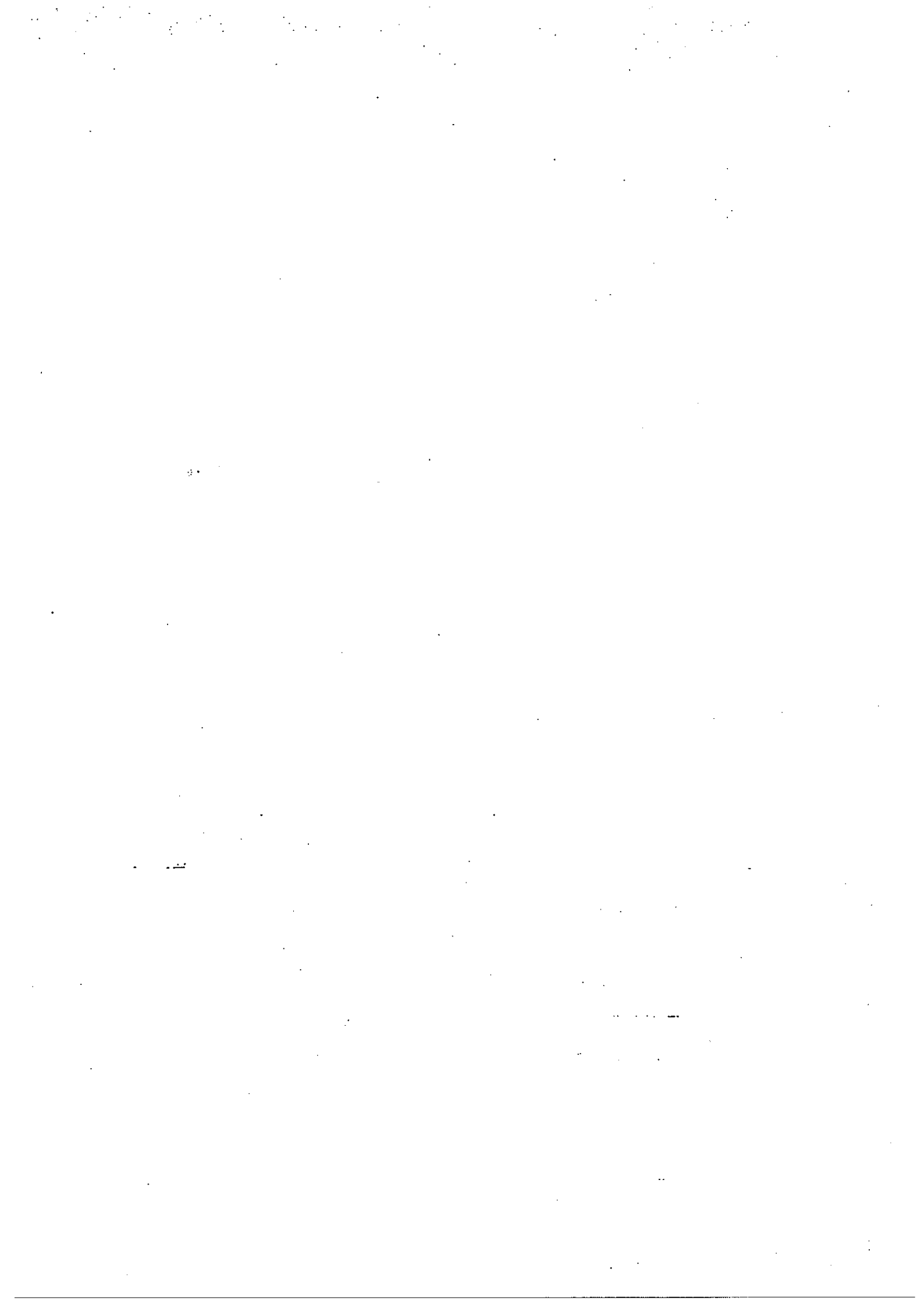
$10 \times 20 = 200$

$200 \times 1.25 = \$250$

14. $1u \rightarrow 54 \div 3 = 18$

$18 \times 5 = 90$

$90 \div 3 = \$30$



15. (a) $7 \times 2 + 5 \times 4 = 34$
 No. of sets $\rightarrow 272 \div 34 = 8$
 No. of chicken $\rightarrow 8 \times 7 = 56$

(b) Chickens : Cows

$$\begin{aligned} &7 : 5 \\ &14 : 10 \\ &9 : 10 \\ 14u - 9u &= 5u \\ 40 \div 10 &= 4 \\ 56 \div 14 &= 4 \\ 4 \times 5 &= 20 \end{aligned}$$

16. A \rightarrow Spending

B \rightarrow Left

Noel: $3B + A = 360$

Kim: $B + 3A = 240$

$3B + A = 360 \rightarrow 9B + 3A = 1080$

$1080 - 240 = 840$

$8B \rightarrow 840$

$B \rightarrow 840 \div 8 = 105$

$240 - 105 = 135$

$135 \div 3 = 45$

$45 \times 4 = \$180$

17. (a) $88 + 1 = 89$

(b) Fig 1: $1 \times (1 + 1) = 2$

Fig 2: $2 \times (2 + 1) = 6$

⋮

Fig 88: $88 \times (88 + 1) = 7832$

(c) Fig 1: 4 circles = 2×2

Fig 2: 9 circles = 3×3

⋮

Fig 11: 144 circles = 12×12

18. $570 - 192 = 378$

$570 + 378 = 948$

$3u \rightarrow 948$

$1u \rightarrow 948 \div 3 = 316$

(a) $316 + 570 = 886$ (Bag A)

(b) $316 + 378 = 694$ (Bag B)

