Name :_____( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2018 Continual Assessment

Paper 1

Booklet A

27 February 2018

15 questions
20 marks

TOTAL TIME FOR BOOKLETS A & B : 1 HOUR

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is **NOT** allowed.

This booklet consists of 8 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, or 4) on the Optical Answer Sheet.

(20 marks)

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1. In 5 306 149, the digit 3 is in the _____ place.

   (1) thousands
   (2) ten thousands
   (3) hundred thousands
   (4) millions

2. Find the value of 400 x 720.

   (1) 288
   (2) 2880
   (3) 28 800
   (4) 288 000

3. Simplify $8 + 6w - 1 + 7w$.

   (1) $7 + 13w$
   (2) $9 - w$
   (3) $9 - 13w$
   (4) $13 + 7w$

4. May divided 15 kg of cashew nuts equally into some containers. Each container had $\frac{3}{5}$ kg of cashew nuts. How many containers did she use?

(1) 9
(2) 25
(3) 3
(4) 45

5. _____ ÷ 100 = 90.9

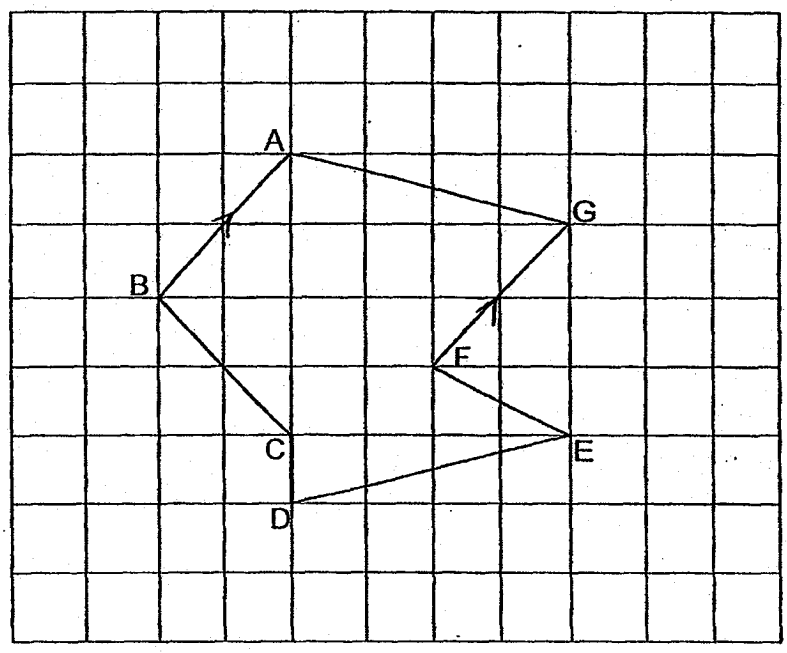
Find the missing value in the blank.

(1) 0.909
(2) 9.09
(3) 909
(4) 9090

6. Ms Goh prepared a jug of honey lemon drink using honey, lemon juice and water in the ratio 3 : 1 : 8. The amount of water she used was 360 ml. How much honey did she use?

(1) 45 ml
(2) 90 ml
(3) 135 ml
(4) 180 ml

7. In the square grid below, which 2 lines are parallel to each other?



(1) AB and BC
(2) AB and GF
(3) AG and BC
(4) AG and FE

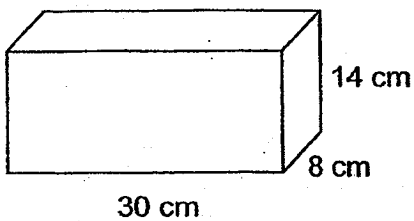
8. Jacob bought a total of 40 red and blue pens. 30% of the pens were red. How many red pens did he buy?

(1) 10
(2) 12
(3) 16
(4) 28

9. Mohan bought a can of green tea from the vending machine. The can is likely to contain _____ ml of green tea.

(1) 3000
(2) 300
(3) 3
(4) 30

10. How many 1-cm cubes can fill up the rectangular box shown below completely?



(1) 240
(2) 420
(3) 3360
(4) 3520

11. The mass of 1 pack of rice is p kg. A bottle of cooking oil is 2 kg heavier than the pack of rice. What is the total mass of 4 such packs of rice and 1 bottle of cooking oil?

(1) $(2p + 2)$ kg
(2) $(4p + 2)$ kg
(3) $(5p + 2)$ kg
(4) $(8p + 2)$ kg

12. The table below shows Lawrence's savings in October and November. He wants his average savings for the 3 months to be \$57. How much must he save in December?

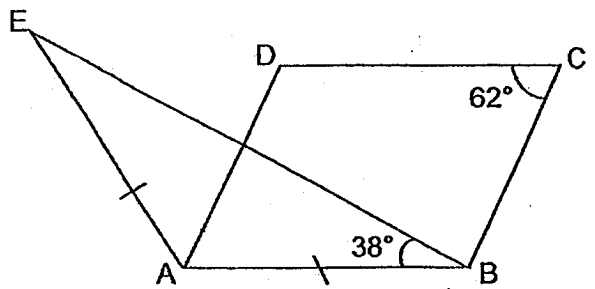
Month	October	November	December
Savings	\$63	\$27	?

(1) \$19
(2) \$33
(3) \$49
(4) \$81

13. A piece of cardboard is cut into a square, a triangle and a rectangle. The area of the square is $\frac{3}{4}$ of the area of the triangle. The area of the rectangle is $\frac{2}{9}$ of the area of the square. What is the ratio of the area of the square to the area of the triangle to the area of the rectangle?

(1) 3 : 4 : 2
(2) 3 : 7 : 2
(3) 9 : 4 : 2
(4) 9 : 12 : 2

14. The figure below shows a parallelogram ABCD and an isosceles triangle ABE. Find $\angle DAE$.



(1) 42°
(2) 52°
(3) 80°
(4) 104°

15. Ruth and Paul each received the same number of stickers. Ruth gave $\frac{5}{6}$ of her stickers away. Paul lost $\frac{3}{4}$ of his stickers. In the end, the children had 60 stickers altogether. How many stickers did Ruth give away?

(1) 50
(2) 108
(3) 120
(4) 150

** END OF BOOKLET A**

Name : _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2018 Continual Assessment

Paper 1

Booklet B

27 February 2018

Booklet A	20
Booklet B	25
Total (Paper 1)	45

15 questions
25 marks

TOTAL TIME FOR BOOKLETS A AND B: 1 HOUR

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is NOT allowed.

This booklet consists of 9 printed pages including the cover page.

Questions **16** to **20** carry 1 mark 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. (5 marks)

Do not write in this space

16. Find the value of $19 + \frac{5b}{2}$ when $b = 4$.

Ans : _____

17. Find the value of $\frac{7}{12} \div \frac{1}{6}$

Express your answer as a mixed number in the simplest form.

Ans : _____

Do not write in this space

18. Find the value of $1 \div 6$.
Correct your answer to 2 decimal places.

Ans: _____

19. A box contains 42 lollipops and 59 cookies. What fraction of the lollipops are cookies?

Ans _____

20. Mr Krishna bought a sofa which included a 7% GST. The cost of the sofa before GST was $1500. How much did Mr Krishna pay for the sofa?

Ans : $_____

Questions **21** 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. (20 marks)

Do not write in this space

21. Marie paid for a haircut with a $50 note. The cashier did not have enough $2 notes as small change. Marie gave the cashier another $1 and received a change of one $5 note. What was the cost of the haircut?

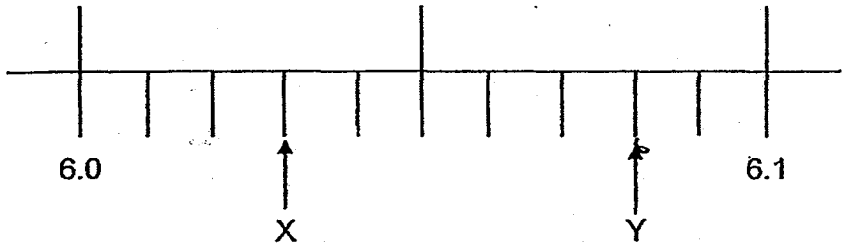
Ans : $_____

22. Rope A is y m long. Rope B is twice as long as Rope A. Rope C is 7 m longer than Rope B. What is the total length of the 3 ropes? Give your answer in terms

Ans : _____ m

Do not write in this space

23. X and Y are 2 points on the number line shown below. Find the sum of X and Y.

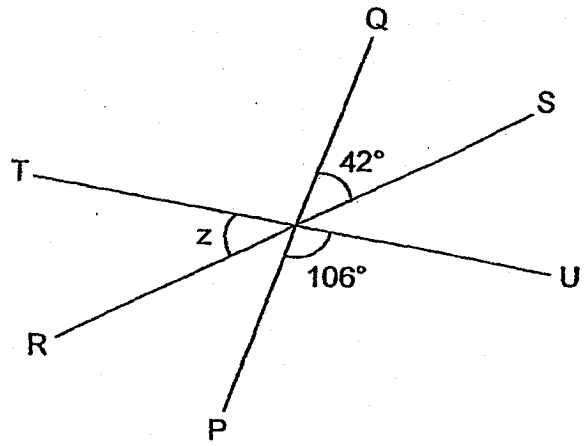


Ans : _____

24. 2 highlighters and 3 files cost $7.95. Each file costs $0.40 more than each highlighter. What is the cost of 1 highlighter?

Ans : $_____

25. In the figure below,PO, RS and TU are straight lines. Find $\angle z$.



Ans : _____ °

Do not write in this space

26. Susan had some buns. $\frac{1}{3}$ of the buns were kaya and the rest were butter. She gave the butter buns equally to her 4 nieces. What fraction of the buns did each of her nieces receive?

Ans : _____

Do not write in this space

27. $\frac{7}{10}$ of Usha's stamps is equal to $\frac{2}{5}$ of Ming's stamps. What is the ratio of the number of Usha's stamps to the number of Ming's stamps? Express your answer in the simplest form.

Ans : _____

28. Mr Lim spent $\frac{1}{4}$ of his money on a watch and $\frac{1}{5}$ of his money on a bag. What percentage of his money did he spend altogether?

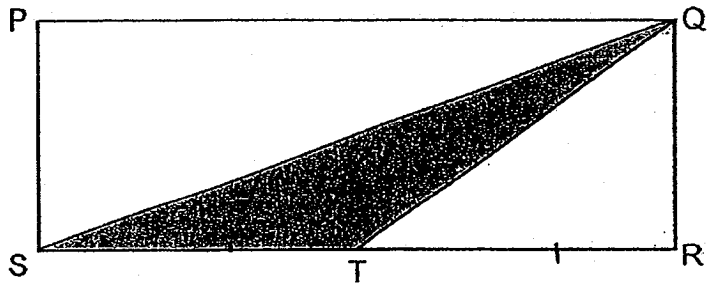
Do not write in this space

Ans : _____ %

29. Mei Fong has a box of marbles. The marbles can be put into bags of 3 or 8 with no leftover. When the marbles are put equally into 9 bags, there are 3 marbles left. What is the smallest possible number of marbles in the box?

Ans : _____

30. The figure below shows a rectangle PQRS and a shaded triangle QTS with ST = TR.



Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
a) The area of the shaded part is $\frac{1}{4}$ of the area of the rectangle PQRS.			
b) The height of triangle QRT is not the same as the height of triangle QTS.			

Do not write in this space

** End of Booklet B **

Name: _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2018 Continual Assessment

Paper 2

27 February 2018

Paper 1	45
Paper 2	55
Total	100

Parent's /Guardian's Signature

17 questions
55 marks

TOTAL TIME FOR PAPER 2 : 1 HOUR 30 MINUTES

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

This booklet consists of 16 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. Zhen Yi paid $2365 for a refrigerator and $289 for a printer. How much did she pay altogether? Express your answer to the nearest thousand dollars.

Ans : $_____

2. The table below shows the parking charges at a car park.

Parking Charges	
The first 2 hours	$1.70
Every additional $\frac{1}{2}$ hour or part thereof	$1.00

Mr Said parked his car from 9.30 a.m. to 1.40 p.m.. How much did he pay?

Ans : $_____

3. Mr Chan had an equal number of rulers and pens. After selling 119 rulers and 254 pens, the ratio of the number of rulers to the number of pens became 6 : 1. What was the number of pens left?

Do not write in this space

Ans : _____

4. Ada baked some pies. She gave some pies to her neighbour and kept $\frac{2}{5}$ of the remaining pies for her family. She had $\frac{1}{4}$ of the pies left. What fraction of the pies did she give her neighbour?

Ans : _____

5. A tank with a square base of side 30 cm was filled with some water. When 8.2 ℓ of water was poured into the tank, the height of water became 16 cm. What was the volume of water in the tank at first?

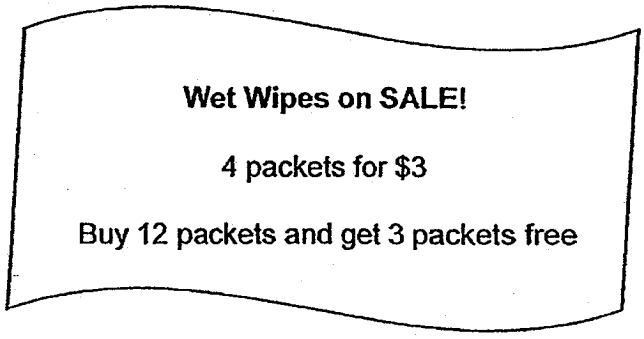
Do not write in this space

Ans : _____ ℓ

For questions **6** to **17**, show your working clearly 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)

Do not write in this space

6. Mrs Wong spent $45 on some packets of wet wipes. How many packets of wet wipes did she get in all?



Ans : _____ [3]

7. Lana and Shanti each used up a roll of ribbon of the same length to decorate the noticeboard. Lana cut her roll of ribbon into equal pieces of $\frac{2}{5}$ m each. Shanti cut her roll of ribbon into 32 pieces of $\frac{3}{4}$ m each. How many more pieces of ribbon did Lana have than Shanti?

Do not write in this space

Ans : _____ [3]

8. Riya planned to buy a pair of headphones worth $186. She started saving $3 on a Wednesday. She saved the same amount every day. What would be the earliest day of the week for Riya to save the exact amount of money to buy the headphones?

Do not write in this space

Ans : _____ [3]

9. There were 940 visitors at the Science Centre. 423 were adults and the rest were children. The number of girls was $\frac{5}{11}$ of the number of children. What percentage of the visitors were boys?

Do not write in this space

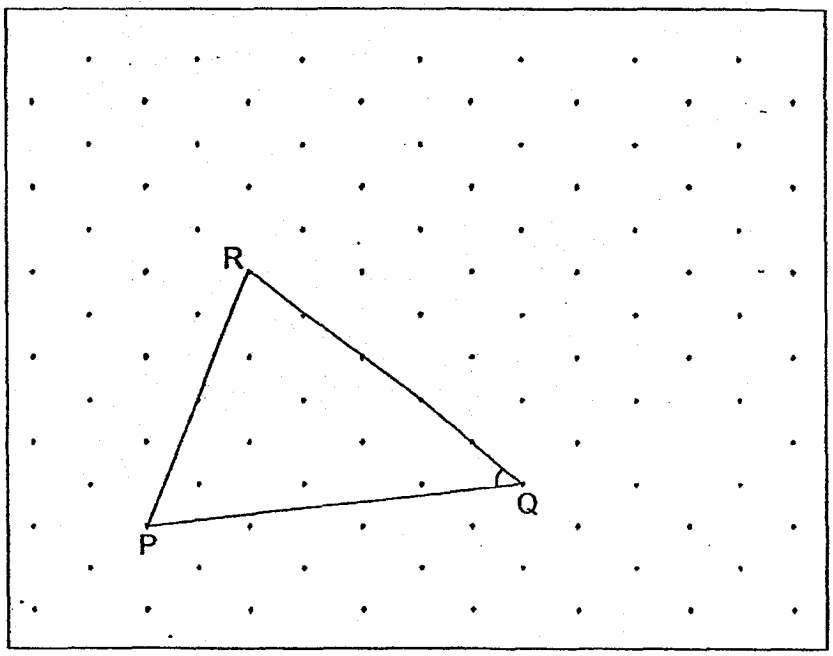
Ans : _____ [3]

Do not write in this space

10. The figure below shows a triangle PQR.

(a) Measure and write down the size of ∠PQR.

(b) QR and ST form two sides of a parallelogram QRST. Complete the drawing of the parallelogram where both S and T are dots inside the box. Label the parallelogram QRST.



[2]

Ans : (a)_____[1]

11. Six identical rectangular tiles can be arranged on a floor 120 cm wide. Two arrangements are shown below. The first arrangement in Figure A leaves a gap of 20 cm at the side and another gap at the top. The second arrangement in Figure B leaves a gap of 68 cm at the side. Find the length of each tile.

Do not write in this space

Figure A

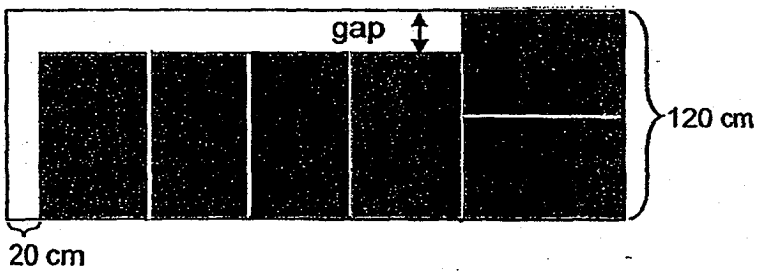
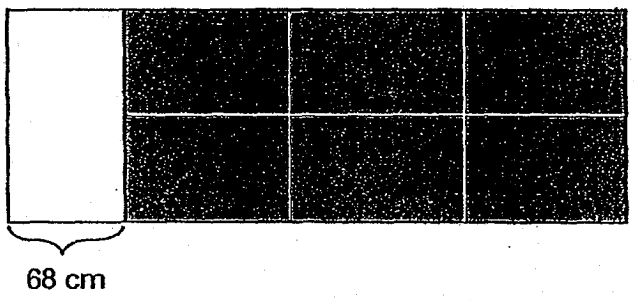


Figure B



Ans : _____ [3]

12. Mrs Seow had e kg of flour. She used 4 kg of flour to bake some biscuits. She repacked the remaining flour equally into 4 containers.

(a) Find the mass of the flour in each container in terms of e.

(b) Given that $e = 18$, find the mass of the flour in each container.

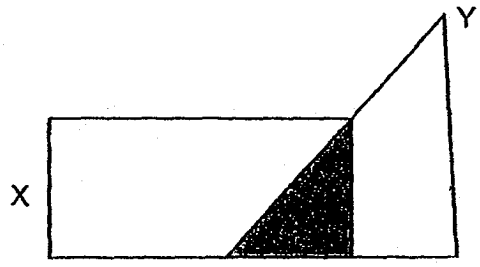
Do not write in this space

Ans : (a) _____ [2]

(b) _____ [2]

13. The figure below is made up of 2 overlapping shapes, Rectangle X and Triangle Y. The ratio of the area of Rectangle X to the shaded area to the area of Triangle Y is 5 : 1 : 3. The area of the whole figure is 126 cm². Find the area of Triangle Y.

Do not write in this space



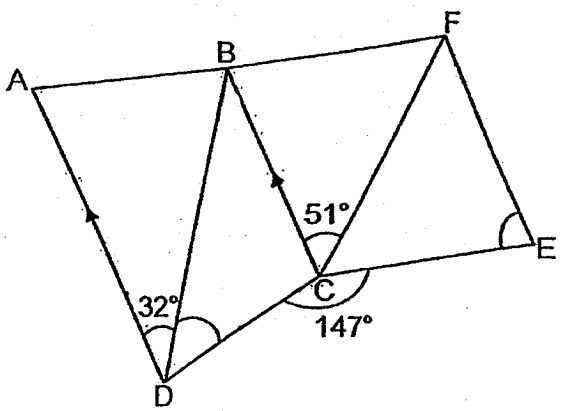
Ans : _____ [4]

14. In the figure, ABCD is a trapezium and AD is parallel to BC. BCEF is a rhombus. $\angle ADB = 32°$, $\angle DCE = 147°$ and $\angle BCF = 51°$.

(a) Name a triangle which is the same as triangle CBF.

(b) Find $\angle FEC$.

(c) Find $\angle BDC$.



Do not write in this space

ns : (a) _____ [1]

(b) _____ [1]

(c) _____ [2]

15. Kai used black and white squares to form figures that follow a pattern as shown below.

Do not write in this space

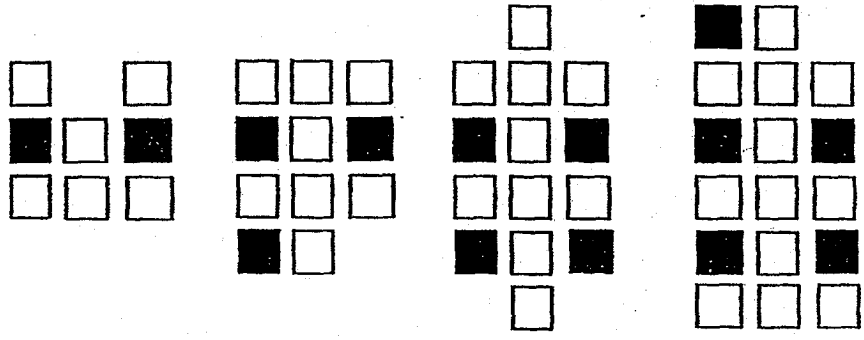


Figure 1 Figure 2 Figure 3 Figure 4

(a) Complete the table for Figure 5.

Figure Number	1	2	3	4	5
Number of white tiles	6	8	10	12	
Number of black tiles	2	3	4	5	
Total number of titles	8	11	14	17	

[1]

(b) How many white tiles are there in Figure 15?

(c) Which Figure is made up of 155 tiles?

Ans: (b) _____ [2]

(c) Figure_____ [2]

16. Wendy spent $\frac{1}{10}$ of her money on 8 cookies and 3 muffins. The cost of 1 muffin was twice the cost of 1 cookie. She bought some more cookies with $\frac{1}{6}$ of her remaining money. How many cookies did she buy altogether?

Do not write in this space

Ans : _____ [5]

17. Gopal had 3 types of fruits. The ratio of the total number of oranges and apples to the number of pears was 10 : 9. After selling $\frac{1}{3}$ of the pears, the ratio of the number of pears to the number of oranges became 2 : 1.

(a) Find the ratio of the number of oranges to the number of apples to the number of pears in the end.

(b) Gopal had a total of 368 fruits left. How many pears did he sell?

Do not write in this space

Ans : (a) _____ [3]

(b) _____ [2]

** END OF PAPER **

EXAM PAPER 2018 (P6)

SCHOOL : CHIJ

SUBJECT : MATHEMATICS

TERM : CA1

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

16)19 + 5b/2 = 19 + 5 x 4/2

= 19 + 20/2

= 19 + 10

= 29

17)7/12 ÷ 1/6 = 7/12 x 6/1

= 7/2

= 3½

18)1 ÷ 6 ≈ 0.166

≈ 0.17

19)C / L → 59/42

20)107/100 x 1500 = $1605

21)Marie gave→$50 + $1 $51

cost→ $51 - $5 = $46

22)A→ y

B→ y x 2

= 2y

C→ 2y + 7

Total→y + 2y + 2y + 7

= (5y + 7)m

23)X→6.03

Y→6.08

Total→ 6.03 +6.08

= 12.11

24)$0.40 x 3 = $1.20

5H→$7.95 – $1.20 = $6.75

1H→$6.75 ÷ 5 = $1.35

25)$\angle Z = 180^\circ - (42^\circ + 106^\circ)$

$= 32^\circ$

26)3/3 – 1/3 = 2/3

2/3÷4/1 = 2/3 x ¼

= 1/6

27)7/10 of Usha's →2/5 of Ming's U : M

14/20 of Usha's→14/35 of Ming's 20 : 35

= 4 : 7

28)1/5 + ¼

= 4/20 + 5/20

= 9/20

9/20 x 100% = 45%

29)48

30)a)True b)False

Paper 2

1)Paid→$2365 + $289 = $2654

≈ $3000

2)9.30a.m. to 11.30a.m.

→$1.70

11.30a.m. to 1.30p.m.

→$1 x 4 $4

1.30p.m. to 1.40p.m.

→$4 + $1 = $5

Paid →$1.70 + $5 = $6.70

3)6 units – 1 unit = 5 units

5 units = 254 – 119 = 135

1 unit = 135 ÷ 5 = 27

4) ¼ of pie→3 units

¾ of pie→9 units

4/4 of pie→12 units

9 units – 2 units 7 units

Fraction of pie to neighbor →7/12

5) Method 1

8200 ÷ 900 = 9 1/9

16 – 9 1/9 = 6 8/9

6 8/9 x 900 = 6200

6200ml = 6.2 ml

Method 2

30cm x 30cm x 16cm = 14400cm3

= 14.4L

Water in tank at first → 14.4L – 8.2L = 6.2L

6) Method 1

12 ÷ 4 = 3

12 + 3 = 15

15 → 3 x $3 = $9

Total packets → ($45 ÷ $9)x5

= 5 x 15 = 75

Method 2

45 ÷ 3 = 15

15 x 4 = 60

60 ÷ 12 = 5 (5 groups of 3 free packets)

5 x 3 = 15

60 + 15 = 75

7) Method 1

S → 32 x ¾ = 32/1 x ¾ = 24

L → 24 ÷ 2/5 = 24/1 x 5/2 = 60

Diff (pieces) → 60 – 32 28

Method 2

2/5 x 100 = 40

¾ m 75cm

75 x 32 = 2400

2400 ÷ 40 = 60

60 – 32 = 28

8) Method 1

5 x $3 = $15

$186 – $15 = $171

$171 ÷ $3 = 57

57 ÷ 7 = 8 R1

Method 2

186 ÷ 3 = 62

62 ÷ 7 = 8 R6

1 week (starting on wed)

Wed	Thu	Fri	Sat	Sun	Mon	Tue
1	2	3	4	5	6	7

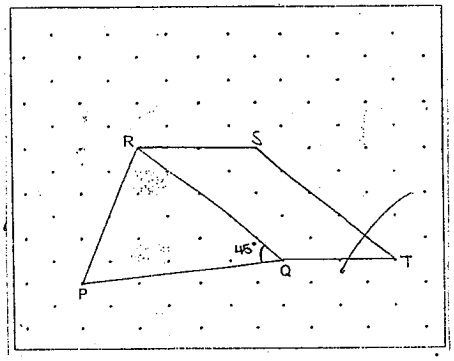
9)children →940 – 423 = 517

517/940 x 100% = 55%

(1 – 5/11) x 55% = 6/11 x 55% 30%

10)a)45°

b)



11) Method 1

Breadth of 1 tile→120cm ÷ 2 = 60cm

Breadth of 4 tiles→60cm x 4 = 240cm

240cm + 20cm = 260cm

Length of 2 tiles→260cm – 68cm = 192cm

Length of 1 tile→192cm ÷ 2 = 96cm

Method 2

2B→1L + gap

4B→2L + 2 gaps →240

48 ÷ 2 = 24

60 x 4 = 240

68 – 20 = 48

240 – 48 = 192

192 ÷ 2 = 96cm

12)a)Remaining→e – 4

1 container→(e – 4) ÷ 4 = (e – 4/4)kg

b)Remaining→18 – 4 = 14

1 container→14 ÷ 4 = 3.5kg

13)5 units + 1 unit + 3 units = 9 units

9 units – 2 units = 7 units

7 units = 126cm2

1 unit = 126cm2 ÷ 7 = 18cm2

3 units = 18cm2 x 3 = 54cm2

14)a)Triangle CBF→Triangle CEF

b) $\angle BCF = \angle ECF = \angle BFC = \angle CFE = 51^\circ$

$\angle FEC = 180^\circ - 51^\circ - 51^\circ = 78^\circ$

c) $\angle BCD = 360^\circ - 51^\circ - 51^\circ - 147^\circ = 111^\circ$

$\angle BDC = 180^\circ - 111^\circ - 32^\circ = 37^\circ$

15)a)14 , 6 , 20

b)15 + 4 = 19

15 + 19 = 34

c) <u>Method 1</u>

8 – 3 = 5

155 – 5 = 150

150 ÷ 3 = 50

c) <u>Method 2</u>

Based on the rule (fig.no.- 1)

x 3 + 8 ,work backwards

(155 – 8) ÷ 3 + 1 = 50

c) <u>Method 3</u>

Based on the rule (Fig.no.x3)

+ 5, work backwards

(155 – 5) ÷ 3 = 50

16)1/10→14C

9/10→14 x 9 = 126

126÷6 = 21

21 + 8 = 29

17)a) P : O

2 : 1

6 : 3

10 – 3 = 7

O : A : P

3 : 7 : 6

b)total units→3 + 7 + 6 = 16

16 units = 368

1unit = 368÷16 = 23

3 units = 23 x 3 = 69