

**PEI HWA PRESBYTERIAN PRIMARY SCHOOL**  
**2009 CONTINUAL ASSESSMENT 1**  
**MATHEMATICS**  
**PRIMARY 6**

Name : \_\_\_\_\_ ( )

Class : \_\_\_\_\_ (6)

Date : 03 March 2009

Parent's Signature : \_\_\_\_\_

**PAPER 1**  
**(Booklet A)**

Total time for Booklets A and B: 50 min

**INSTRUCTIONS TO CANDIDATES**

- Do not turn over this page until you are told to do so.
- Follow all instructions carefully.
- Answer all questions.
- Shade your answers in the Optical Answer Sheet (OAS) provided.
- You are **not** allowed to use a calculator.
- Check your work carefully.

**Section A : (20 marks)**

**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 oval (1, 2, 3 or 4) on the Optical Answer Sheet provided. You are not allowed to use a calculator.**

1. John is  $z$  years old. In 10 years' time, his age will be half of Henry's.  
How old will Henry be then?

- (1)  $\frac{1}{2}z + 10$   
(2)  $2z + 10$   
(3)  $\frac{1}{2}z + 20$   
(4)  $2z + 10$

( )

2. 45 boys and 27 girls are in a library.  
What is the ratio of the number of girls to the total number of children?

- (1) 3 : 5  
(2) 5 : 3  
(3) 3 : 8  
(4) 5 : 8

( )

3. Dora and Maria shared a sum of money in the ratio 2 : 7.  
Maria received \$35 more than Dora.  
How much did Dora receive?

- (1) \$10
- (2) \$14
- (3) \$49
- (4) \$63

( )

4. The breadth and length of a rectangle are in the ratio 3 : 5.  
The length of the rectangle is 30 cm.  
Find its perimeter.

- (1) 48 cm
- (2) 80 cm
- (3) 96 cm
- (4) 160 cm

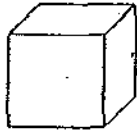
( )

5. Janet used butter, sugar and flour in the ratio 2 : 3 : 5 to bake a 2-kg cake.  
She baked three cakes.  
How much sugar did she use?

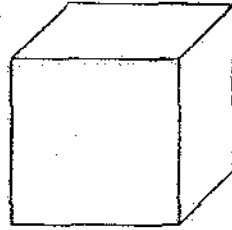
- (1) 0.9 kg
- (2) 1.2 kg
- (3) 1.8 kg
- (4) 3 kg

( )

6. The figures below are not drawn to scale.



Cube A



Cube B

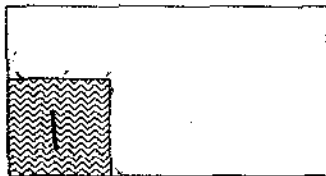
The side of Cube A is 1 cm. The side of Cube B is 2 cm.

Find the ratio of the volume of Cube A to the volume of Cube B.

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

( )

7. The figure below is not drawn to scale.



A square is cut out from a rectangle.

The ratio of the area of the rectangle to the area of the square is 5 : 1.

The length of each side of the square is 4 cm.

Find the area of the remaining part of the rectangle.

- (1) 16
- (2) 20
- (3) 64
- (4) 80

( )

8. What is the missing number in the box?

$$4 : 5 = 4 + 100 : 5 + \square$$

- (1) 99
- (2) 100
- (3) 125
- (4) 130

( )

9. Gillian, Harriet and Isabel shared some stickers in the ratio 4 : 5 : 12.

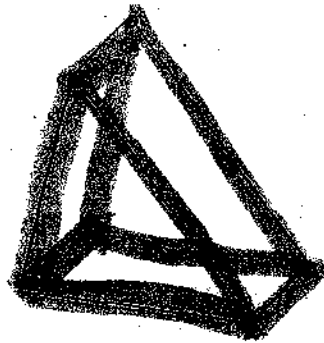
Isabel had 56 more stickers than Harriet.

How many stickers did Gillian have?

- (1) 28
- (2) 32
- (3) 40
- (4) 224

( )

10. Look at the solid figure below.



How many edges does it have?

- (1) 5
- (2) 6
- (3) 8
- (4) 9

( )

11. Gideon is  $(2s + 3)$  years old. His brother is 5 years older than him.  
Find their total age 2 years ago.

- (1)  $4s + 9$
- (2)  $4s - 1$
- (3)  $4s + 7$
- (4)  $4s - 3$

( )

12. Russell had \$5. Sam had  $\$p$  more than him and \$3 less than Terence.  
How much did the three boys have altogether?

- (1)  $\$(p + 18)$
- (2)  $\$(2p + 12)$
- (3)  $\$(2p + 18)$
- (4)  $\$(10p + 8)$

( )

13. Sophie and Rachel share some blue ribbons in the ratio of 5 : 2.  
They want to buy some red ribbons so that the total number of ribbons they have will be tripled.  
In what ratio must they divide the red ribbons so ~~the~~ <sup>that</sup> Rachel will have twice the number of ribbons she has now?

- (1) 6 : 1
- (2) 5 : 2
- (3) 5 : 9
- (4) 17 : 4

( )

14. David and Ross shared some game cards in the ratio of 8 : 7.  
If Ross gave 12 game cards to David, David would have twice the number of game cards as Ross.

What is the total number of game cards they had altogether?

- (1) 45
- (2) 60
- (3) 90
- (4) 180

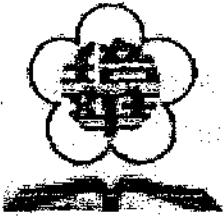
( )

15. Mr Faizal has a metal rod.  
He needs 6 minutes to saw it into 4 pieces.

How many minutes does he need if he wants to saw the rod into 28 pieces?

- (1) 42
- (2) 45
- (3) 54
- (4) 56

( )



PEI HWA PRESBYTERIAN PRIMARY SCHOOL  
2009 CONTINUAL ASSESSMENT 1  
MATHEMATICS  
PRIMARY 6

Name : \_\_\_\_\_ ( )

Class : \_\_\_\_\_ (6)

Date : 03 March 2009

**PAPER 1**  
(Booklet B)

Booklet	Type	Max. Marks	Marks Obtained	Parent's Signature
B	Short-answer	10		
		10		
<b>Total</b>		20		

**INSTRUCTIONS TO CANDIDATES**

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- Write your answers in this booklet.
- You are not allowed to use a calculator.
- Check your work carefully.

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.

You are not allowed to use a calculator.

(10 marks)

16. Find the value of  $32 + 8 \div 4 - 6 + 10 \times 3$ .

Answer: \_\_\_\_\_

17. During the holidays, Meilin worked part-time to earn some pocket money.

She earned \$ $w$  per day for the first 4 days and \$25 for the last 2 days.

How much did she earn in total?

Answer: \$ \_\_\_\_\_

18. Simplify  $4 - 3a + 8 + 15a - 3$ .

Answer: \_\_\_\_\_

19. Customers were given a free CD for every 2 CDs they buy at a sale.  
Ben spent \$ $k$  and got 30 CDs in all.  
What is the price of 1 CD?

Answer: \$ \_\_\_\_\_

20. How many months are there in  $d$  years and 3 months?

Answer: \_\_\_\_\_ months

21. Katy took 1h 40 min to complete a puzzle while Devi took 40 min.  
Find the ratio of the time taken by Katy to the time taken by Devi to complete the puzzle.  
Express your answer in the simplest form.

Answer: \_\_\_\_\_

22. Apples were sold at 3 for 70 cents.  
Jingwen had \$5. She used her money to buy as many apples as she could.  
How much change did she receive?

Answer: \$ \_\_\_\_\_

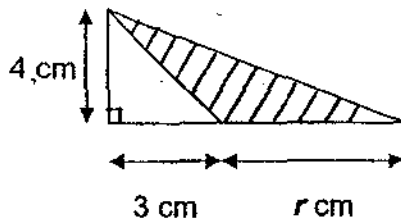
23. Connie had 12 Malaysian stamps and 24 Indian stamps.  
She then bought some local stamps so that she had a total of 50 stamps.  
What is the ratio of the number of local stamps to the number of Indian stamps to the number of Malaysian stamps that she has?  
Express your answer in the simplest form.

Answer: \_\_\_\_\_

24. Weiwei had five \$10 notes in his wallet.  
He changed all the notes into 20-cent coins.  
What is the ratio of the number of \$10 notes he had at first to the number of 20-cent coins he has now?  
Express your answer in the simplest form.

Answer: \_\_\_\_\_

25. Look at the figure below.



Find the area of the shaded triangle.

Answer: \_\_\_\_\_  $\text{cm}^2$

**Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the answer spaces provided. For questions which require units, give your answers in the units stated. (10 marks)**

26. Sally had 135 more stickers than Kelly.  
Kelly lost some of her stickers and had 80 stickers left.  
If Sally had 300 stickers at first, how many stickers did Kelly lose?

Answer: \_\_\_\_\_

27. Sumi bought  $g$  toys for \$50.  
She later sold them and earned \$2 for each toy she sold.  
How much money did Sumi collect from the sale of the toys?

Answer: \$ \_\_\_\_\_

28. The diagrams below show two different views of the same cube.  
The letters on the faces of the cube are A, B, C, D, E and F.

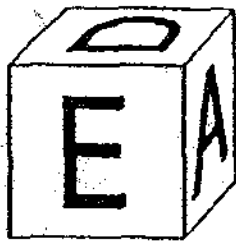


Figure 1

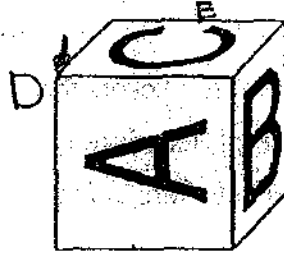


Figure 2

- (a) What is the letter at the base of the cube in Figure 2?  
(b) What is the letter that is opposite to the face of the cube that is marked B?

Answer: (a) \_\_\_\_\_

(b) \_\_\_\_\_

29. Container A can hold 13 times as much water as Container C and 5 times as much water as Container B.

What is the ratio of the amount of water Container B can hold to that of Container C?

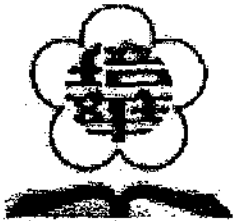
Express your answer in the simplest form.

Answer: \_\_\_\_\_

30. Mr Ibrahim has 5 children.  
The ages of his children are spaced 2 years apart.  
The youngest child is half as old as the oldest child.  
How old is the middle child?

Answer: \_\_\_\_\_ years old

~End of Paper 1~



**PEI HWA PRESBYTERIAN PRIMARY SCHOOL**  
**2009 CONTINUAL ASSESSMENT 1**  
**MATHEMATICS**  
**PRIMARY 6**

Name : \_\_\_\_\_ ( )

Class : \_\_\_\_\_ (6)

Date : 03 March 2009

**PAPER 2**

Time : 1 hour 40 min

	Maximum Marks	Marks Obtained	Parent's Signature
Paper 1 Booklet A	20		
Paper 1 Booklet B	20		
Paper 2	60		
Total	100		

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- Write your answer in this booklet.
- You are allowed to use a calculator.
- Check your work carefully.

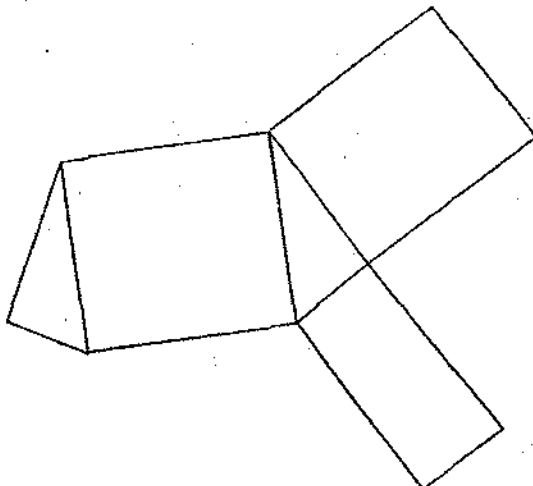
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

You are allowed to use a calculator.

(10 marks)

1. The diagram below shows the net of a solid.



- (a) Name the solid that can be formed by the net.  
Is it a cube, a prism or a pyramid?
- (b) How many faces does this solid have?

Answer: (a) \_\_\_\_\_

(b) \_\_\_\_\_

2. A television commercial lasts  $g$  minutes.  
During a movie shown from 7 pm to 9 pm, 20 such commercials were shown.  
How long was the movie?

Answer: \_\_\_\_\_ h

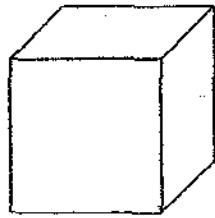
3. Express the ratio  $1\frac{1}{8} : 3.06$  in its simplest form.

Answer: \_\_\_\_\_

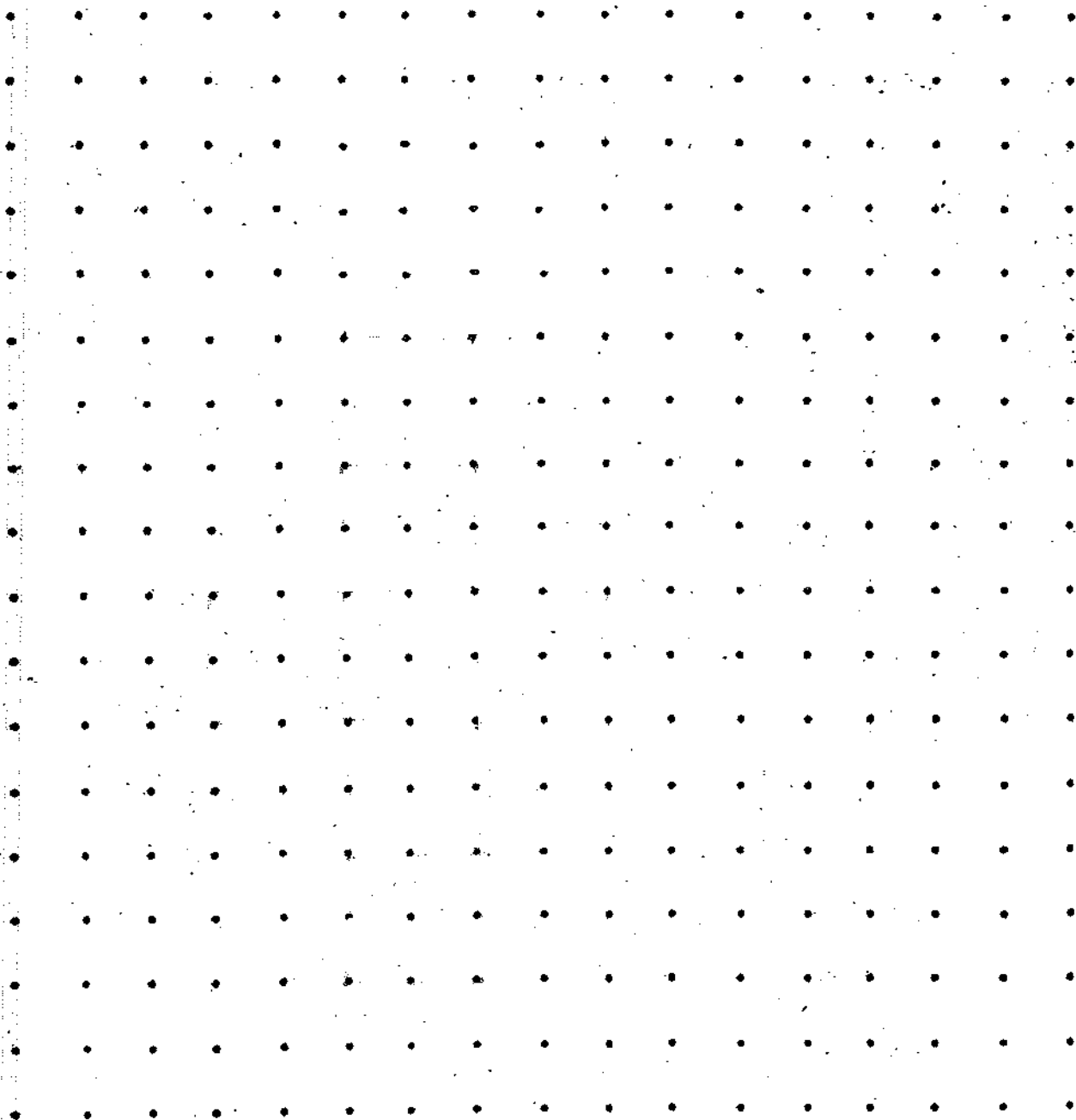
4. John and Mary are brother and sister.  
Mary says: I have twice as many brothers as sisters.  
John says: I have as many brothers as sisters.  
How many children are there in the family?

Answer: \_\_\_\_\_

5. The figure below shows a 2-cm cube.



Use the 1-cm grid below to draw a net of the cube.



**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. You are allowed to use a calculator. (50 marks)**

6. Qifeng's weekly wage is \$42 more than Tim's.  
It takes Qifeng 7 weeks to earn the same amount of money Tim would earn in 9 weeks.  
What is Qifeng's weekly wage?

Answer: \_\_\_\_\_ [3]

- 
7. Mdm Ling bought 3 kg of raisins.  
She needs 200g of raisins to bake a cake.  
How many kilograms of raisins had she left after she baked  $p$  cakes?

Answer: \_\_\_\_\_ [3]

8. Martha made  $3n$  litres of drink.

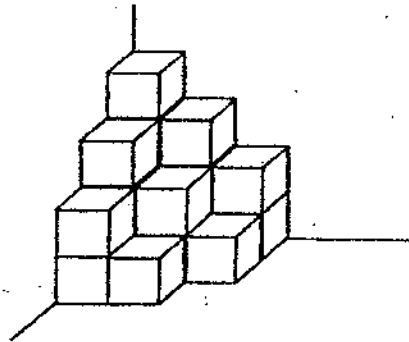
She pours the drink into plastic bottles which can hold  $\frac{1}{2}$  litre each.

How many bottles does she need to hold all the drink she has made?

Answer: \_\_\_\_\_ [3]

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9. Hong Da stacked some identical blocks in a corner of the room as shown in the diagram below.



Each block is a 2-cm cube.

He wants to rearrange the blocks to form a cube.

What is the smallest number of additional blocks he needs to form the cube?

Answer: \_\_\_\_\_ [3]

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10. Last week, the ratio of the number of Xiuling's beads to the number of Hannah's beads is 5 : 8.

This week, Xiuling lost 285 beads.

The ratio of the number of Xiuling's beads to the number of Hannah's beads is now 5 : 14.

How many beads does Hannah have?

Answer: \_\_\_\_\_ [3]

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11. Glen bought a watch and paid for it in \$2 notes.

Clement bought the same watch at the same price and paid for it in \$5 notes.

Glen used 27 more notes than Clement to pay for the watch.

What was the price of the watch?

Answer: \_\_\_\_\_ [3]

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12. In March, the total savings of Andy, Henry, Roy and Zack was \$2498.  
In April, the savings of the four boys became equal after Andy's savings decreased by \$65, Henry's savings doubled, and Roy's savings increased by \$129.  
Zack's savings remained the same.  
What was Roy's savings in March?

Answer: \_\_\_\_\_ [4]

13. The ratio of Alison's salary to Betty's salary is 3 : 2.  
Alison spent half of her salary and Betty spent \$306.  
The ratio of the amount of money they spent is 4 : 3.  
How much is Alison's salary?

Answer: \_\_\_\_\_ [4]

14. There were some horses and people on a farm.

There were 62 more legs than heads.

There were 26 more heads than tails.

(a) How many people were there?

(b) How many horses were there?

Answer: (a) \_\_\_\_\_ [1m]

(b) \_\_\_\_\_ [3m]

15. The average number of books sold in a departmental store was 8555 from 11<sup>th</sup> to 18<sup>th</sup> December and 7935 from 12<sup>th</sup> to 20<sup>th</sup> December.  
644 books were sold on 11<sup>th</sup> December.  
1270 books were sold on 20<sup>th</sup> December.  
How many books were sold on 19<sup>th</sup> December?

Answer: \_\_\_\_\_ [5]

16. Baker Ang and Baker Lee shared 318 cartons of eggs.  
Baker Lee took 12 cartons of eggs more than Baker Ang.  
He threw away 21 rotten eggs and had 5919 eggs left.
- (a) How many eggs were there in each carton?
  - (b) How many eggs did Baker Ang get?

Answer: (a) \_\_\_\_\_ [3m]  
(b) \_\_\_\_\_ [2m]

17. Sugar and water are mixed in the ratio 1 : 5 to make a syrup.

The volume of the syrup is  $800 \text{ cm}^3$ .

- (a) Find the volume of sugar in the syrup.
- (b) Find the volume of water in the syrup.
- (c) How much more sugar must be added to the syrup so that the ratio of sugar to water in the syrup becomes 1 : 3?

Express all your answers in the simplest form.

Answer: (a) \_\_\_\_\_ [1m]  
(b) \_\_\_\_\_ [1m]  
(c) \_\_\_\_\_ [3m]

18. George had \$56 and David had \$70.  
They put their money together and bought 3 identical wallets.  
George and David each kept one wallet for himself.  
They then sold the third wallet for \$60.  
If they shared the amount of money they earned according to the ratio of their contribution, how much of the earnings should David get?

Answer: \_\_\_\_\_ [5]

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**End of Paper**

# ANSWER SHEET

**EXAM PAPER 2009**

**SCHOOL : PEI HWA PRIMARY**  
**SUBJECT : PRIMARY 6 MATHEMATICS**

**TERM : CA1**

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

- 16)58      17) $\$(25+4w)$       18) $12a+9$       19) $\$ K/10$       20) $(12d+3)$
- 21)5:2      22) $\$0.10$       23)7:12:6      24)1:50      25)2r
- 26)85      27) $\$(2g+50)$       28)a)E b)D      29)13:5      30)12

**Paper 2**

1)a)Prism    b)5	2) $(2-g/3)h$
3)25:68	4)7
5) <div style="text-align: center; margin: 10px 0;"> </div>	6) $\$189$

7)(3-0.2p)kg	8)6n bottles
9)27-18=9	10)70-40=30 285 ÷ 30=9.5 9.5x112=1064 beads
11)\$90	12)2498-65=2433 2433+129=2562 2562 ÷ 7=\$366 366x2=\$732 732-129=\$603
13)306 ÷ 3=102 102x4=408 1u → 408 ÷ 3=136 6u → 136x6=\$816	14)a)26 people b)12 horses
15)644 → 11 <sup>th</sup> to 18 <sup>th</sup> =8day 8555x8=68440 68440-644=67796 books 12 <sup>th</sup> to 20 <sup>th</sup> =9day 1935x9=71415 71415-1270=70145 70145-67796=2349 books	16)a)318-12=306 306 ÷ 2=153 5919+21=5940 153+12=165 5940 ÷ 165=36 eggs b)36x153=5508 eggs
17)a)13 <sup>1</sup> / <sub>3</sub> cm <sup>3</sup> b)66 <sup>2</sup> / <sub>3</sub> cm <sup>2</sup> c)88 <sup>8</sup> / <sub>9</sub>	18)\$12