Rosyth School
Second Continual Assessment 2015
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

Date: 25th August 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 7 pages (including this 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale unless stated otherwise.

(20 marks)

1. How many tens are there in 45 790?

(1) 45

(2) 457

(3) 4579

(4) 45 790

2. What is the sum of 8 tenths and 30 thousandths?

(1) 0.083

(2) 0.803

(3) 0.83

(4) 80.3

3. What is the value of $24 - (15 - 9) \div 2 + 7$?

(1) 0

(2) 2

(3) 16

(4) 28

(Go on to the next page)

7. Express 1.8 as a percentage.

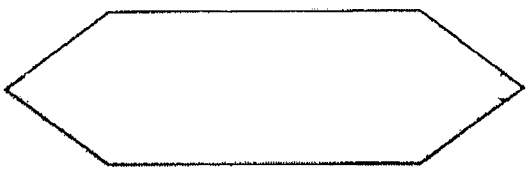
(1) 0.018%

(2) 1.8%

(3) 18%

(4) 180%

8. In the figure shown below, how many angles inside the figure are lesser than a right angle?



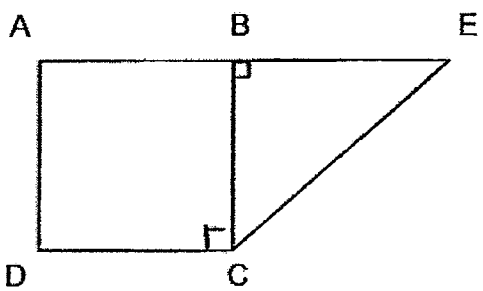
(1) 0

(2) 2

(3) 6

(4) 4

9. In the figure shown, ABCD is a square and BCE is a right-angled triangle. Which of the following pairs of lines are **not** perpendicular?



(1) DC and CE

(2) AB and BC

(3) BC and CD

(4) BE and BC

(Go on to the next page)

4. How many sixths are there in $3\frac{5}{6}$?

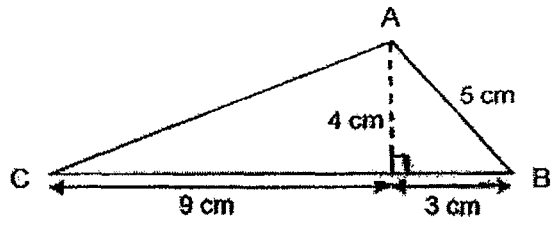
(1) 14

(2) 21

(3) 23

(4) 35

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



(1) 18 cm^2

(2) 24 cm^2

(3) 30 cm^2

(4) 48 cm^2

6. The ratio of Mary's number of stickers to Ken's number of stickers is 2 : 3. The ratio of Ken's number of stickers to Leo's number of stickers is 2 : 5. What is the ratio of Mary's number of stickers to Leo's number of stickers?

(1) 2 : 5

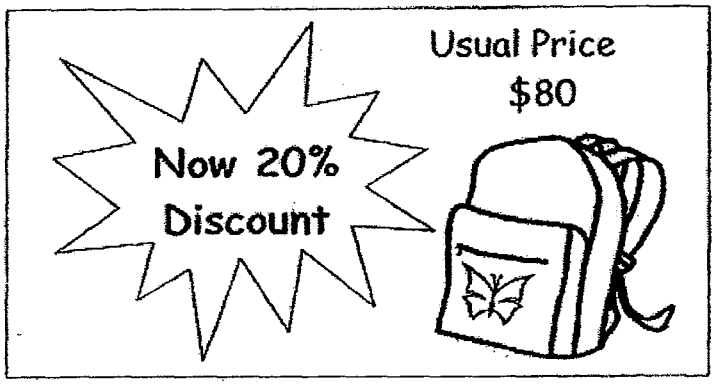
(2) 3 : 5

(3) 2 : 3

(4) 4 : 15

(Go on to the next page)

10. What is the discount of the bag?



(1) $16

(2) $60

(3) $64

(4) $96

11. The total mass of 2 apples and 3 pears is 822 g. The 3 pears have a total mass of 478 g. What is the average mass of the 2 apples?

(1) 134 g

(2) 172 g

(3) 344 g

(4) 583 g

(Go on to the next page)

12. The number of boys who signed up for a swimming course was the same as the number of girls who signed up for the same course. $\frac{1}{4}$ of the boys and $\frac{1}{8}$ of the girls withdrew from the course. What fraction of the children withdrew from the course?

(1) $\frac{3}{16}$

(2) $\frac{3}{8}$

(3) $\frac{5}{8}$

(4) $\frac{13}{16}$

13. Last year, Alex's allowance was $200 a month. This year, he receives $250 allowance each month. What was the percentage increase in his allowance?

(1) 20%

(2) 25%

(3) 50%

(4) 125%

14. Sushma packed 4 cupcakes and 5 muffins in each box. After packing 30 boxes, she had the same number of cupcakes and muffins left. If she had 3 muffins left, what was the total number of cupcakes and muffins at first?

(1) 270

(2) 273

(3) 276

(4) 360

(Go on to the next page)

15. Lilian's mass is 40% lighter than Wendy's mass. Lilian's mass is 30 kg. What is their total mass?

(1) 48 kg

(2) 50 kg

(3) 72 kg

(4) 80 kg

Please proceed to Booklet B

Rosyth School
Second Continual Assessment 2015
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

Date: 25th August 2015 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1

(Booklet B)

Instructions to Pupils:

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.

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

* This booklet consists of 6 pages (including this cover page)

Do not write in this space

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

(10 marks)

16. Round off 35 498 to the nearest 1000.

Ans: _____

17. $9600 \div 60 =$ _____

Ans: _____

18. Express $\frac{7}{20}$ as a percentage.

Ans: _____ %

19. Find the value of $3986 \div 9$? Give your answer correct to 2 decimal places.

Ans: _____

Do not writ
in this spac

20. 84 : 36 = 7 : ☐
What is the missing number in the box?

Ans: _____

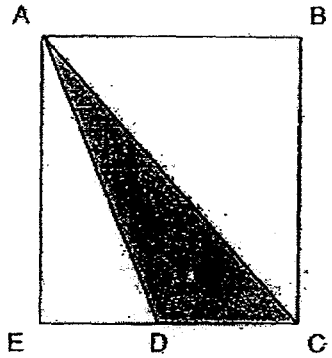
21 Express 33 min as a percentage of 1 hour.

Ans: _____ %

22. The ratio of the number of boys to the number of girls in a class is 5 : 6. There are 20 boys in the class. How many girls are there in the class?

Ans: _____

23. In the figure, ABCE is a rectangle. Identify the height of the shaded triangle ACD, when the base is DC.



Ans: _____

(Go on to the next page)

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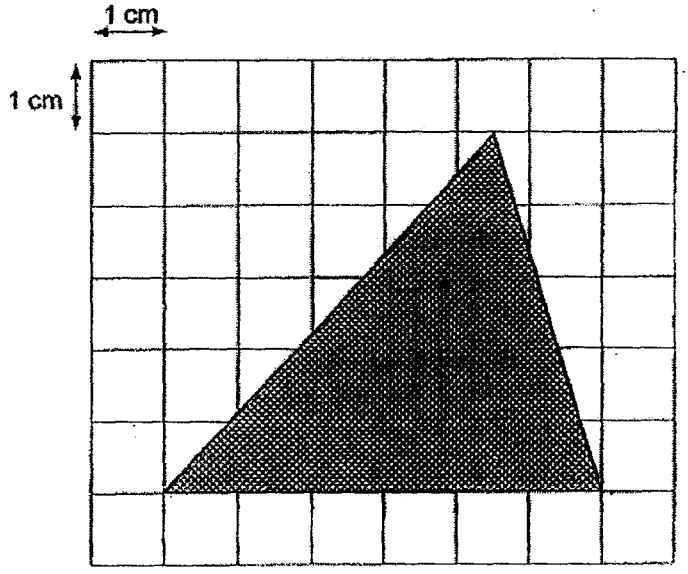
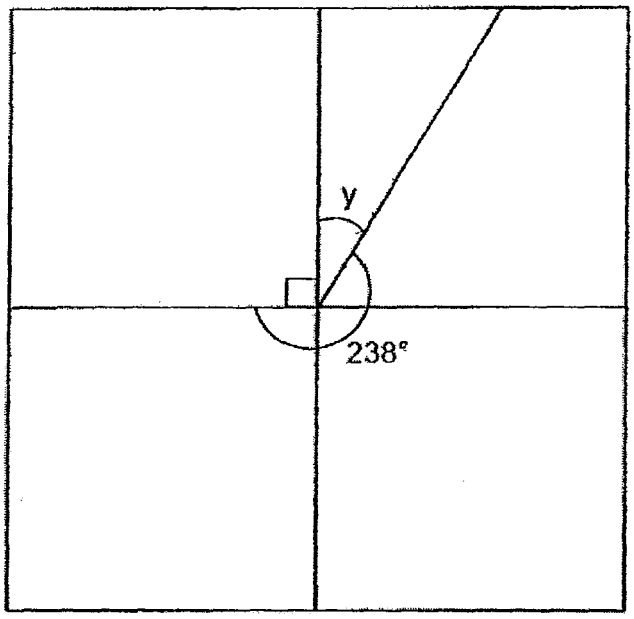
24. Find the area of the shaded triangle in the square grid below.



Ans: _____ cm^2

25. There are 4 squares in the figure. Find $\angle y$.



Ans: _____ °

Do not write in this space

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.

(10 marks)

26. A confectioner has 43.28 kg of sugar. He used 28.65 kg of it to make candies. How much sugar does he have left? Round off your answer to the nearest kg.

Ans: _____ kg

27. Container A can hold 4 ℓ of water. Container B can hold $\frac{3}{5}$ ℓ of water less than Container A. What is the total amount of water that both Container A and Container B can hold? Give your answer as a mixed number in the simplest form.

Ans: _____ ℓ

Do not write in this space

28. Ali and Zaki are brothers with an age difference of one year. The product of their ages is 650. Ali's age is a multiple of 5. What is Zaki's age?

Ans: _____

29. Minah had $\frac{3}{4}$ m of ribbon. She used $\frac{1}{5}$ of it on Monday. Her sister used $\frac{1}{4}$ m on Tuesday. What was the length of the ribbon Minah had left?

Ans: _____ m

30. A rectangle measures 80 cm by 60 cm. Its length and breadth are both increased by 40%. Find the perimeter of the new rectangle.

Ans: _____ cm

End of paper. Have you checked your work?

Rosyth School
Second Continual Assessment 2015
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 _____

Date: 25th August 2015 Parent s Signature: _____

Time: 1h 40mins

PAPER 2

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 17 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.
All diagrams are not drawn to scale unless stated otherwise. (10 marks)

Do not write in this space

1. Max wrote 200 numbers in the following repeat pattern :

   5 5 1 3 5 5 3 5 5 1 3 5 5 3 5 5 1 3 5 5 3 5 5 1 3 5 ... ...

   What was the last number that he wrote?

Ans _____ [2]

2. Mingli is 14 years old now. His sister is 2 years younger than him. What is the ratio of Mingli's age to his sister's age 3 years later?

Ans: _____ [2]

3. In a group of 80 children, 34 wear spectacles. What percentage of the children does not wear spectacles?

Do not write in this spac

Ans: _____ % [2]

4. Xena, Yami and Zoe had a total of $580. Xena had $50 more than Yami. Zoe had thrice as much as Xena. How much money did Yami have?

Ans: $ _____ [2]

5. There were 60 adults in a restaurant at first. The ratio of the number of men to the number of women was 5 : 7. After 8 men and 8 women left the restaurant, what was the ratio of the number of men to the number of women remaining in the restaurant?

Do not write in this space

Ans: _____ [2]

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

Do not write in this space

6. **The ratio of Kenny's savings to Ron's savings was 3 : 4. After Kenny used $14 from his savings to buy a book, the ratio of Kenny's savings to Ron's savings became 2 : 3. What was Kenny's savings at first?**

Ans: _____ [3]

7. A group of friends wants to share some chicken nuggets.
If each friend takes 6 chicken nuggets, there will be 1 left over.
If each friend takes 7 chicken nuggets, the last person will have 3 chicken nuggets only.

(a) How many chicken nuggets do they share?

(b) How many friends are there?

Do not write in this space

Ans: (a) _____ [2]

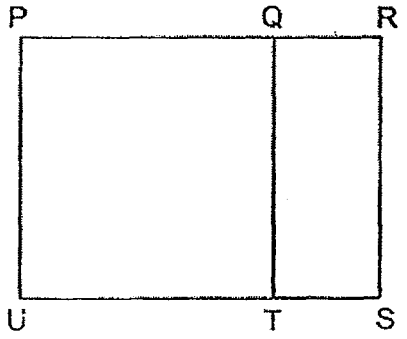
(b) _____ [1]

8. Mr Goh had 225 more pens than rulers in his bookshop. He sold $\frac{5}{6}$ of the pens and $\frac{1}{3}$ of the rulers. Then he had an equal number of pens and rulers left.
What was the total number of pens and rulers he had in the bookshop at first?

Do not write in this space

Ans: _____ [3]

9. The figure below is made up of a square PQTU and a rectangle QRST. QR is $\frac{1}{3}$ PQ. The perimeter of the square is 72 cm, what is the area of the figure PRSU?



Do not write in this space

Ans: _____ [3]

10. In a garden, $\frac{3}{8}$ of the flowers are lilies. $\frac{3}{4}$ of the remainder are orchids. The rest are tulips. If there are 120 tulips, how many of the flowers are lilies?

Do not write in this space

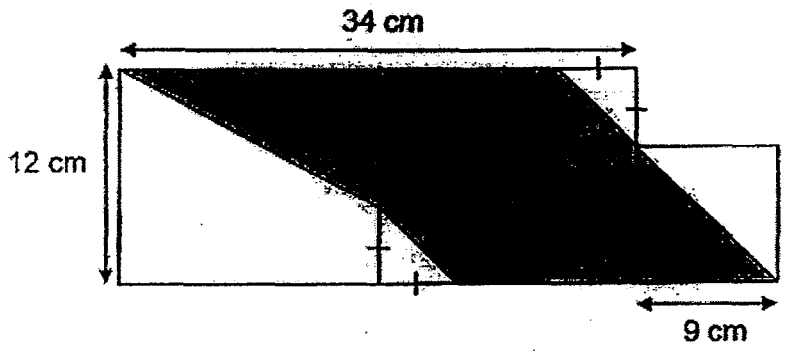
Ans: _____ [3]

11. At first, Helmi's savings was 70% of Ron's savings. After each of them spent $138 on a pair of headphones, Helmi's savings became 40% of Ron's savings. What was Ron's savings at first?

Do not write in this space

Ans: _____ [3]

12. The figure below is made up of 2 identical rectangles and a square of side 9 cm. Find the shaded area.



Do not write in this spac

Ans: _____ [4]

13. $\frac{3}{5}$ of the children who took part in a sports camp were boys. Half of the boys were placed in the soccer group and the rest were in the basketball group. $\frac{3}{8}$ of the girls were placed in the netball group and the rest were placed in the floorball group. There were 28 more boys who were in the soccer group than girls in the floorball group.

(a) How many children were there at the sports camp?

(b) How many more boys than girls were there at the sports camp?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

14. Three identical plates cost as much as four identical bowls.
Mrs Tan bought 12 such plates and 8 such bowls at $64.80.
What was the total cost of 1 plate and 1 bowl?

Do not write in this space

Ans: _____ [4]

15. At a nursery, each row had 15 potted plants. When 25 plants dried out, they were removed by the workers. The workers were then able to put 10 potted plants in a row and there were 9 more rows than before. How many potted plants were there at first?

Do not write in this space

Ans: _____ [5]

16. A school paid $2 787 for its pupils to go on a learning journey to the Singapore Zoo. The cost of an admission ticket for an adult is $32.50 and for a child is $21.60. There were 114 more pupils than teachers who went on this learning journey.

(a) How many teachers went to the Singapore Zoo?

(b) How many pupils went to the Singapore Zoo?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

17. A set of comic books cost $30 more than a set of board games in Famous Bookstore. During its anniversary sale, all customers enjoy a storewide 20% discount. In celebration of SG50, members enjoy a further 5% discount off the discounted price. Mrs Siva, a member of the bookstore, paid a total of $98.80 for a set of comic books and a set of board games. What is the original cost of the set of comic books?

Do not write in this space

Ans: _____ [4]

18. Lina and Joyce shared some bookmarks in the ratio 2 : 3. After Joyce gave 35 bookmarks to Lina, the ratio of Lina's bookmarks to Joyce's bookmarks became 3 : 1. Then, each of them bought the same number of bookmarks. The ratio of Lina's bookmarks to Joyce's bookmarks became 9 : 4 in the end.

(a) How many bookmarks did Lina and Joyce have altogether at first?

(b) How many bookmarks did each of them buy?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

End of Paper

Answer Key

SCHOOL : ROSYTH SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : CA2

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	4	3	2	4	4	2	1	1

Q 11	Q12	Q13	Q14	Q15
2	1	2	3	4

PAPER 1 BOOKLET B

Q16) 3500

Q17) 160

Q18) 35

Q19) 442.89

Q20) 3

Q21) 55

Q22) 24

Q23) AE or BC

Q24) 15

Q25) 32

Q26) 43 – 28.65 = 14.63

≈ 15

Q27) - = 3

3 + 3 =

Ans :

Q28) Ali age → 5, 10, 15, 20, 25, 30, ...

Zaki age → 4, 6, 9, 10, 11,14, 16, 19, 21, 24, 29, 31, ...

650 → A x Z

Possible age → 25 x 24 = 600 x

→ 25 x 26 = 650

Ans: 26

Q29) M → x =

T →

Left → - - = (Ans)

Q30) Increase in L → x 80 = 32

New L → 32 + 80 = 112

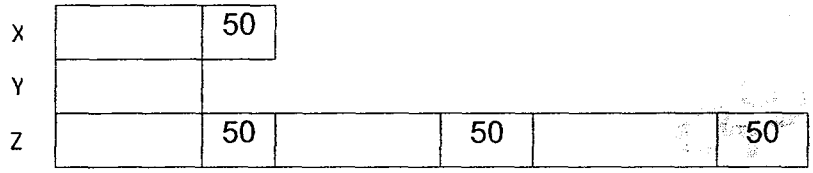
Increase in B → x 80 = 24

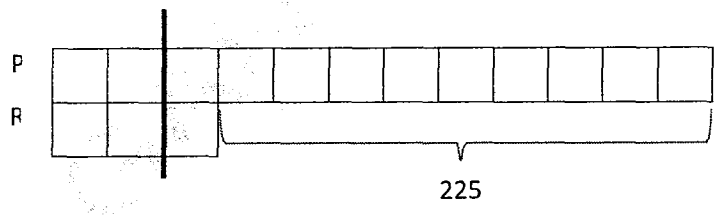
New B → 24 + 60 = 84

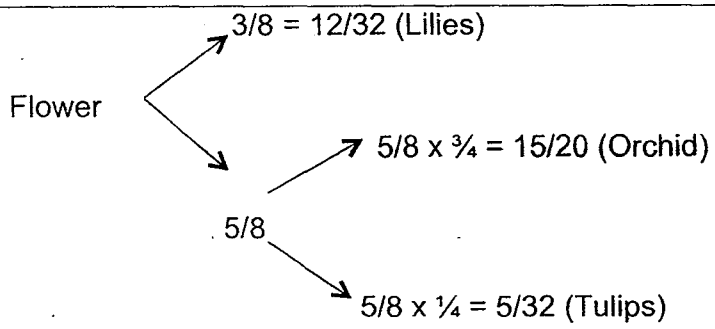
New Perimeter → 84 + 84 + 112 + 112 = 392

PAPER 2

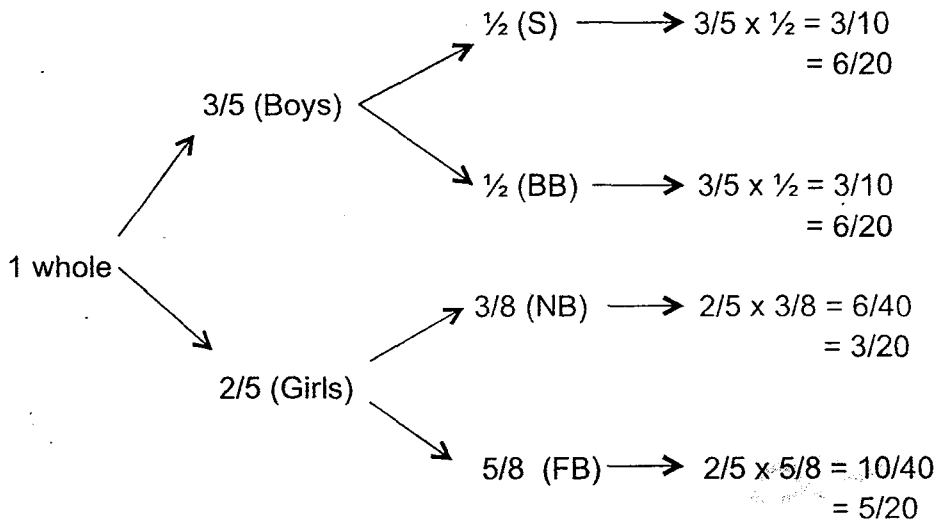
Q1)	Pattern → 5513553 (7 time table) 200 ÷ 7 = 28 R 4 5 5 1 (3) 5 5 3 Ans : 3
Q2)	Sis age →14 – 2 = 12 Ming new age →14 +3 = 17

	Sis new age → 12 +3 = 15 Ans : 17 : 15
Q3)	100% → 80 1% → 80 ÷ 100 = 0.8 No Spectacles → 46/100 x 100% = 57.5%
Q4)	 50 x 4 = 200 580 – 200 = 380 5u → $380 1u → $380 ÷ 5 = $76
Q5)	M : W : Total At first : 5 : 7 : 12 -8 : -8 12u → 60 1u → 60 ÷ 12 = 5 M → 5 X 5 = 25 W → 5 X 7 = 35 M (in the end) →25 – 8 = 17 W (in the end) →35 – 8 = 27 Ans : 17 : 27
Q6)	K : R Before : 3 : 4

	9 : 12 After : 2 : 3 8 : 12 9u – 8u = 1u 1u → 14 K → 9 x $14 = $126
Q7)	<table><tr><td>6 :</td><td>6</td><td>12</td><td>18</td><td>24</td><td>30</td><td>36</td><td>42</td></tr><tr><td>+1 :</td><td>7</td><td>13</td><td>19</td><td>25</td><td>31</td><td>37</td><td>43</td></tr></table> <table><tr><td>7 :</td><td>7</td><td>14</td><td>21</td><td>28</td><td>35</td><td>42</td><td>49</td></tr><tr><td>-4</td><td>3</td><td>10</td><td>17</td><td>24</td><td>31</td><td>38</td><td>45</td></tr></table> a) 31 b) 5
Q8)	 Left : 1/6 of pens = 2/3 of rulers 9u → 225 1u → 225 ÷ 9 = 25 Total → 25 x 15 = 375
Q9)	72 ÷ 4 = 18 18 ÷ 3 = 6

	18 + 6 = 24 24 x 18 = 432 Ans : <u>432 cm²</u>
Q10)	 5u → 120 1u → 120 ÷ 5 = 24 24 x 12 = <u>288</u>
Q11)	<u>H : R : Diff</u> Before : 70% : 100% : 30% 140% : 200% : 60% <u>-138 : -138</u> After : 40% : 100% : 60% 200% -100% = 100% 100u → 138 200u → 138 x 2 = <u>276</u>
Q12)	9 x9 = 81 81 ÷ 2 = 405 ½ x 3 x 3 = 4.5 4.5 x 2 = 90 12 x 17 = 204 204 – 9 = 195 ½ x 17 x 9 = 76.5 76.5 + 195 + 40.5 = 312 Ans : <u>312 cm²</u>

Q13)



a) 6u – 5u = 1u

1u → 28

20u → 28 x 20 = <u>560</u>

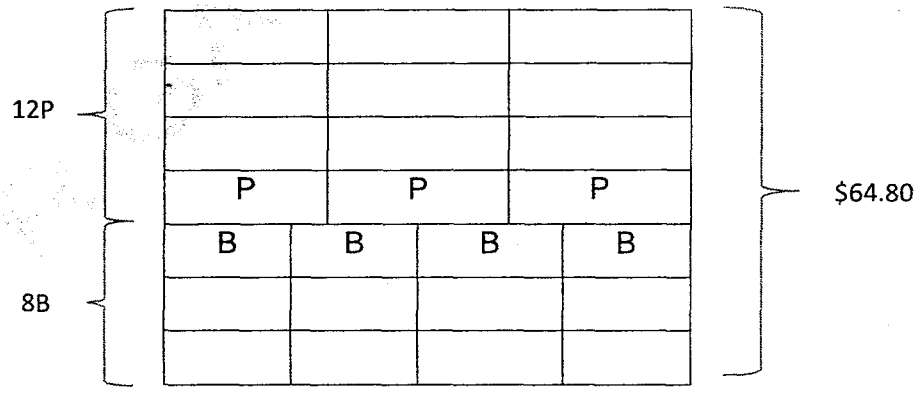
b) Boys → 6u + 6u = 12u

Girls → 3u + 5u = 8u

More → 12u – 8u = 4u

4u → 28 x 4 = <u>112</u>

Q14)



3P = 4B

6P = 8B

12P + 8B = $64.80

12P + 6P = $64.80

18P = $64.80

	1P = $64.80 ÷ 18 = $3.60 3P = $3.60 X 3 = $10.80 4B = $10.80 1B = $10.80 ÷ 4 = $2.70 1B + 1P → $2.70 + $3.60 = <u>$6.30</u>
Q15)	9 X 10 = 90 90 + 25 = 115 15 – 10 = 5 115 ÷ 5 = 23 23 x 15 = <u>345</u>
Q16)	21.60 X 114 = 2462.40 2787 – 2462.40 = 324.60 32.50 + 21.60 = 54.10 a) 324.60 ÷ 54.10 = <u>6</u> b) 114 + 6 = <u>120</u>
Q17)	Normal Time → 100% Anniversary Sale → 100% - 20% = 80% 5% of 80% = 5/100 x 80% = 4% 80% - 4% = 76% 76% → $98.80 1% → $98.80 ÷ 76 = $1.30 $130 - $30 = $100 1u → $100 ÷ 2 = $50 $50 + $30 = <u>$80</u>

Q18)

	L	:	J	:	Total (unchanged)	
Before :	2	:	3	:	5	x 4
	3	:	1	:	4	
	8	:	12	:	20	x 5
	15	:	5	:	20	
	+7	:	-7			

	L	:	J	:	Difference (unchanged)	
After	15	:	5	:	10	
	9	:	4	:	5	x 2
	18	:	8	:	10	
	+3	:	-3			

a) 7u → 35

1u → 35 ÷ 7 = 5

20u → 5 x 20 = <u>100</u>

b) 3u → 5 x 3 = <u>15</u>