NAN HUA PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 2 – 2018

PRIMARY 4

MATHEMATICS

INSTRUCTIONS TO CANDIDATES

1. Write your name, register number and class in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1

Marks Obtained

Section	Maximum Marks	Actual Marks
A	40	
B	40	
C	20	
Total	100	

Name : _____

Class : Pr 4_____

Date : 31 October 2018

Duration: 1 h 45 min

Parent's Signature :_____

Section A: Multiple Choice Questions (20 × 2 marks)

Questions 1 to 20 carry 2 marks each.

Of the 4 options given, only one is correct. Choose the correct answer (1, 2, 3 or 4) and shade the correct oval on the Optical Answer Sheet (OAS).

1. The value of the digit 8 in 58 123 is _____.

   (1) 80
   (2) 800
   (3) 8000
   (4) 80 000 ( )

2. 82 657 rounded to the nearest hundred is _____.

   (1) 82 600
   (2) 82 660
   (3) 82 700
   (4) 83 000 ( )

3. In 49.852, the digit 8 is in the _____ place.

   (1) tens
   (2) tenths
   (3) hundredths
   (4) thousandths ( )

4. What is the product of 1 107 and 3?

   (1) 369
   (2) 1110
   (3) 3321
   (4) 3361 ( )

5. $8\frac{2}{9} = \frac{\square}{9}$

What is the missing number in the box?

(1) 16
(2) 70
(3) 72
(4) 74

( )

6. Find the value of $\frac{5}{12} - \frac{1}{4}$

(1) $\frac{1}{6}$

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

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

(4) $\frac{1}{12}$

( )

7. Which of the following is **not an equivalent fraction of** $\frac{1}{5}$?

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

(2) $\frac{3}{15}$

(3) $\frac{5}{20}$

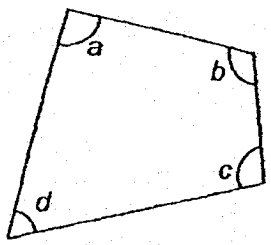
(4) $\frac{6}{30}$

( )

8. $0.5 + 0.009 + \square = 0.589$

(1) 0.008
(2) 0.08
(3) 0.8
(4) 8.0 ( )

9. In the figure, which angle is a right angle?



(1) $\angle a$
(2) $\angle b$
(3) $\angle c$
(4) $\angle d$ ( )

10. Which of the following figures **does not** have a line of symmetry?

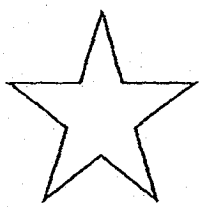


Figure A

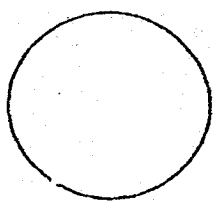


Figure B

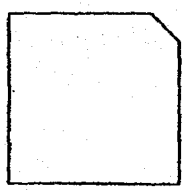


Figure C

Figure D

(1) Figure A
(2) Figure B
(3) Figure C
(4) Figure D ( )

11. A big box contains 3 times as many pencils as a small box. If 1 big box and 2 small boxes contain 30 pencils, how many pencils does the big box contain?

(1) 6
(2) 10
(3) 12
(4) 18 ( )

12. A plane left Singapore at 22 05 on Monday and arrived in Hong Kong at 02 15 on Tuesday. How long was the flight from Singapore to Hong Kong?

(1) 19 h 50 min
(2) 7 h 50 min
(3) 4 h 10 min
(4) 3 h 10 min ( )

13. Madeline bought a pencil case that cost $7.90 and a story book that cost $5 more than the pencil case. How much money did Madeline spend altogether?

(1) $10.80
(2) $12.90
(3) $17.90
(4) $20.80 ( )

14. Sumin had exactly enough money to buy 20 identical notebooks. She bought 12 such notebooks and had $24 left. How much money did she have at first?

(1) $36
(2) $40
(3) $48
(4) $60 ( )

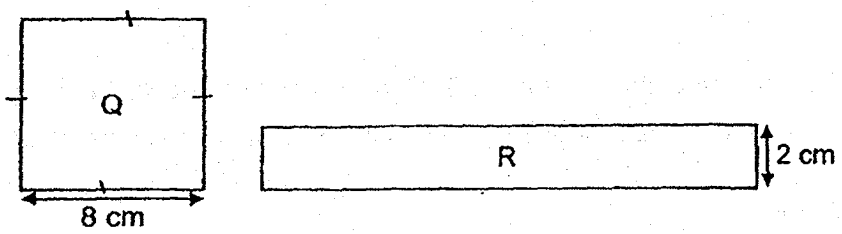
15. The table below shows the number of P4 students taking part in different activities during a school camp. Each child only took part in one activity.

Activity	Tent Pitching	Outdoor Cooking	Canoeing	Skate-boarding
Number of students	50	96	42	52

$\frac{2}{5}$ of all the participants took part in one of the activities. Which activity was this?

(1) Tent Pitching
(2) Outdoor Cooking
(3) Canoeing
(4) Skateboarding ( )

16. Square Q and Rectangle R have the same area. Find the perimeter of Rectangle R.



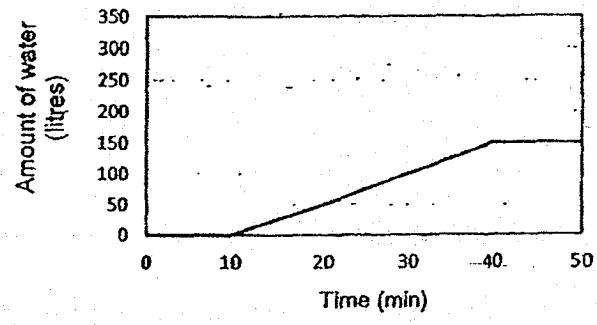
(1) 18 cm
(2) 36 cm
(3) 34 cm
(4) 68 cm ( )

17. Victoria and Jerina saved a total of $450 altogether Victoria saved $26 less than Jerina. How much money did Jerina save?

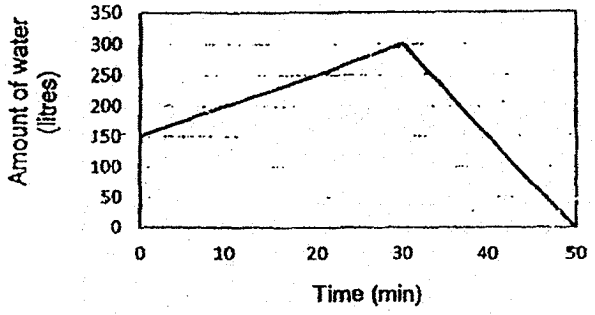
(1) $251
(2) $238
(3) $212
(4) $199 ( )

18. A tank has a capacity of 300 ℓ. $\frac{1}{2}$ of the tank was filled with water. Chong Beng turned on the tap for 30 minutes till the tank was completely filled. For the next 20 minutes, the tank was completely drained. Which graph below correctly shows the amount of water in the tank at regular intervals?

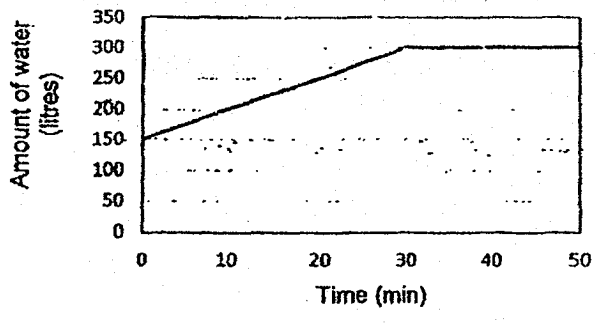
(1)



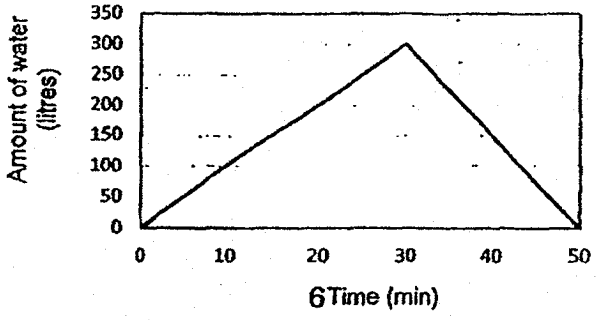
(2)



(3)



(4)



( )

19. At a zoo, $\frac{4}{11}$ of the visitors were female and the rest were male. If there were 188 female visitors, how many male visitors were there?

(1) 517
(2) 329
(3) 141
(4) 47 ( )

20. The table shows the number of senior citizens in each family living in an HDB block.

Number of senior citizens in each family	Number of families
0	15
1	12
2	20
3	5

What is the total number of senior citizens living in the HDB block?

(1) 6
(2) 37
(3) 52
(4) 67 ( )

Section B: Open-ended Questions (20 × 2 marks)
Questions 21 to 40 carry 2 marks each.
Write out the correct answers for the following questions in the boxes provided.
Show your workings clearly and give your answers in the units provided.

21. Write forty thousand in figures.

Ans: ☐

22. Two factors of 6 are 1 and 6. What are the other two factors of 6?

Ans: ☐ and ☐

23. Express $\frac{4}{12}$ in its simplest form.

Ans: ☐

24. Arrange the following fractions from the smallest to the greatest.

$\frac{3}{4}$, $\frac{5}{12}$, $\frac{7}{12}$

Ans: _____ , _____ , _____
(smallest) *(greatest)*

25. Write 9 tenths as a decimal.

Ans: ☐

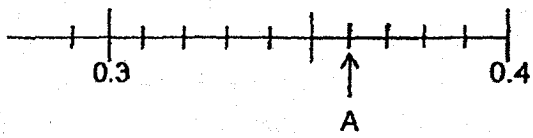
26. Round 11.54 to the nearest whole number.

Ans: ☐

27. 3.08 + 5 = _____

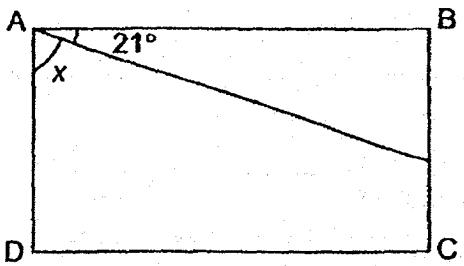
Ans: ☐

28. Write the decimal represented by A.



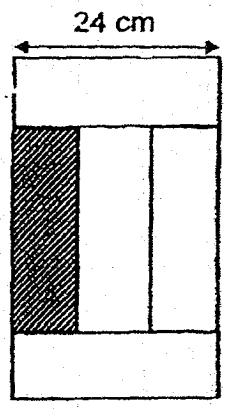
Ans: ☐

29. In the figure, ABCD is a rectangle. Find the value of $\angle x$.



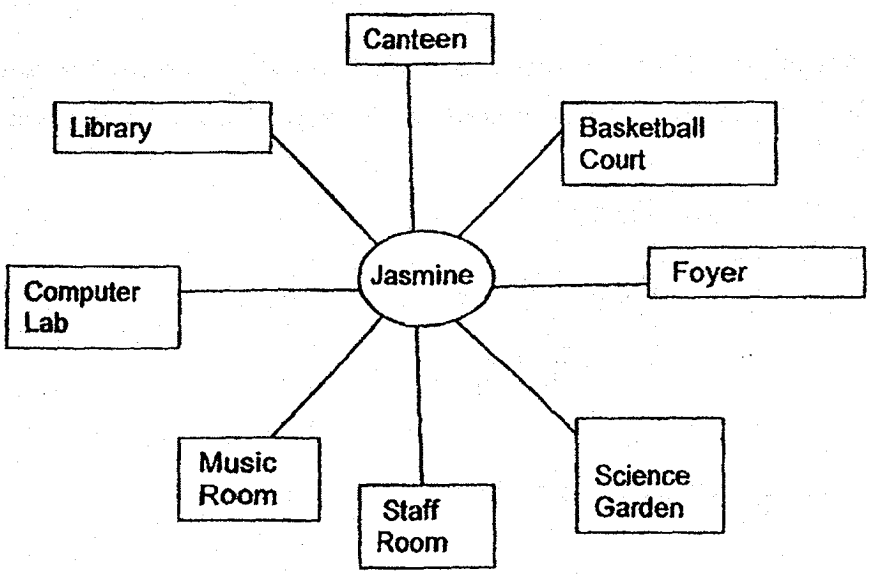
Ans: ☐ °

30. The following figure is made up of 5 identical rectangles. What is the area of the shaded part?



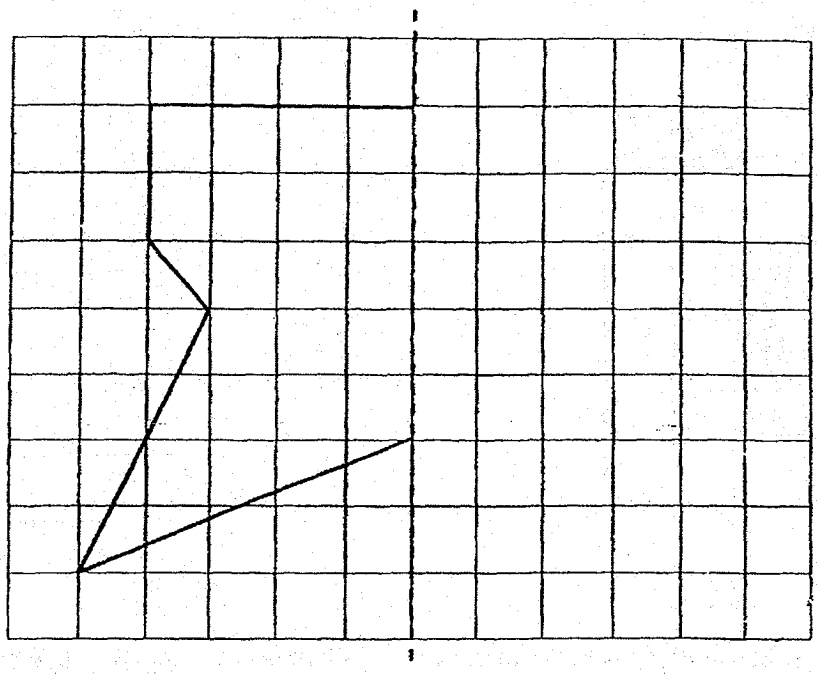
Ans: _____ cm^2

31. Jasmine is facing the foyer now. If she makes a $\frac{3}{4}$ - turn in the clockwise direction, where will she be facing?

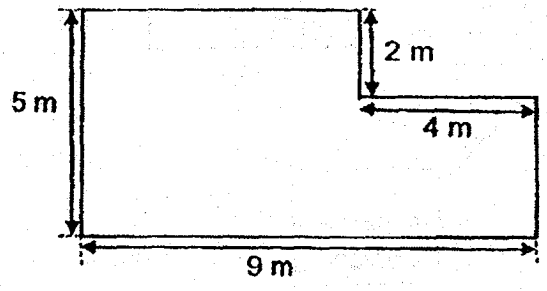


Ans: _____

32. Complete the symmetric figure with the dotted line as the line of symmetry.

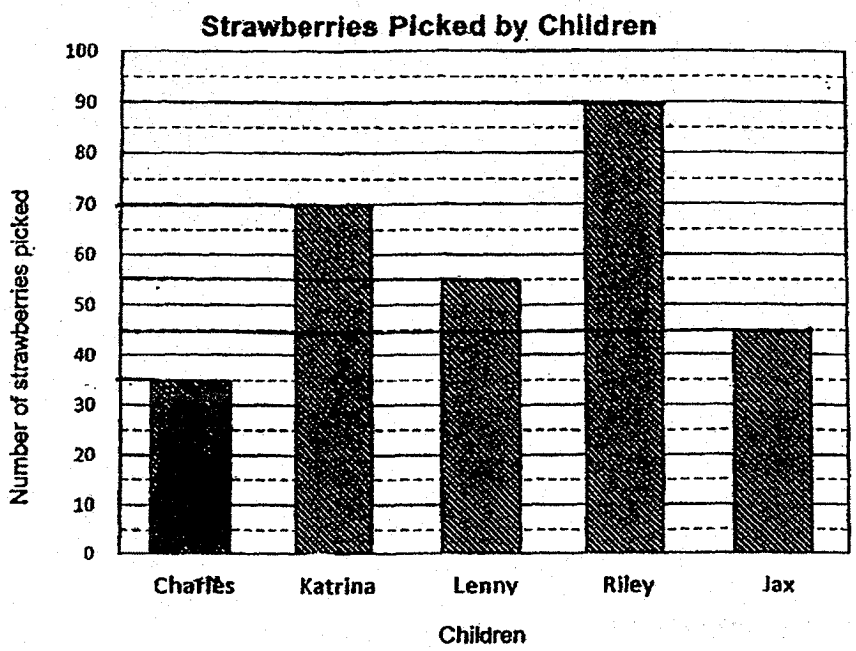


33. Alden needs to fence up his plot of garden as shown in the figure below. The cost of fencing is $6 per metre. How much does Alden need to pay to fence up the plot of garden?
(All the lines meet at right angles.)



Ans: $ _____

34. The following bar graph shows the number of strawberries picked by 5 children.



How many more strawberries must Jax pick so that he would have as many strawberries as what Katrina and Lenny have picked altogether?

Ans:

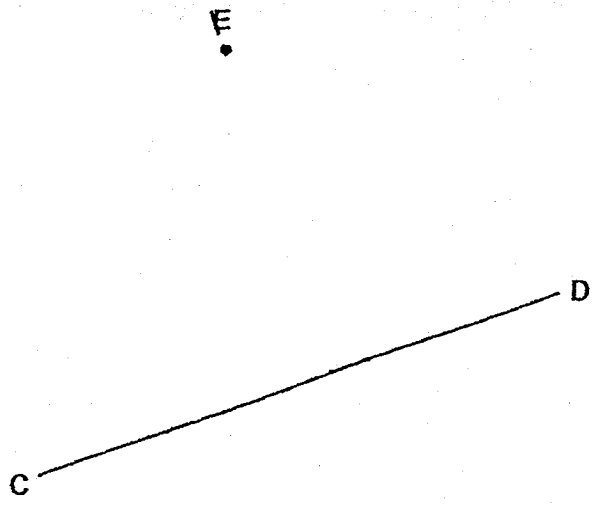
35. The table shows the number of red and green beads that Giselle and Betty have. Part of the table is being scribbled.

	Giselle	Betty	Total
Number of red beads	[redacted]	56	[redacted]
Number of green beads	24	[redacted]	[redacted]
Total	[redacted]	92	169

How many red beads does Giselle have?

Ans: _____

36. Draw a line perpendicular to CD, passing through point E.



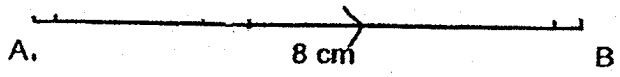
37. Desmond has some marbles. If he shares the marbles among 3 friends, he will have 2 marbles left. If he shares the marbles among 5 friends, he will need 3 more marbles. What is the smallest possible number of marbles he has?

Ans: [ ]

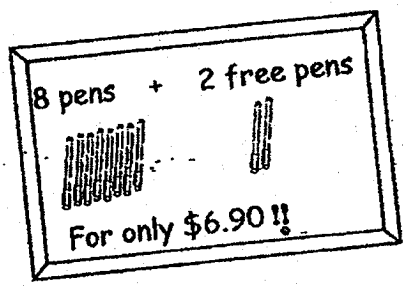
38. Jessie left school to go to the library at 12 45. She walked for 9 minutes to the bus stop and waited for 12 minutes for the bus to arrive. Her bus journey to the library was 25 minutes. What time did she reach the library?
Leave your answer in 12-hour clock.

Ans: [ ]

39. Use a ruler and a protractor to draw a rectangle ABCD of length 8 cm and breadth 5 cm.



40. Mrs Lee bought some pens from a bookshop during a sale. She received a total of 12 free pens. How much did Mrs Lee pay for her purchase?

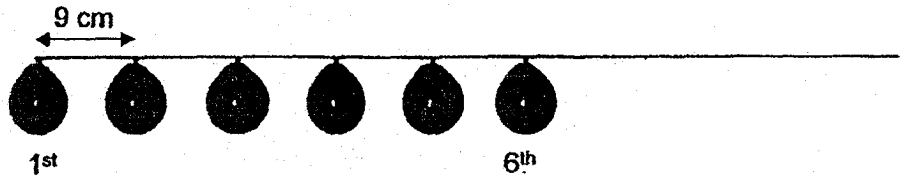


Ans: $ _____

Section C (5 × 4 marks)

For each of the following questions, show your workings and mathematical statements in the space below each question. Write your answer in the answer space provided.

41. Kelly had a string of 130.5 cm long. She tied balloons on the string. Part of the balloons were as shown below. The distance between 2 balloons is 9 cm.



(a) What is the length of string between the 1st and 6th balloon? (1 mark)

(b) Find the most number of balloons that could be tied on the string. (3 marks)

Ans: (a) _____

(b) _____

42. Keith had 432 beads and Jonathan had 108 beads. How many beads must Keith give Jonathan so that both of them had an equal number of beads?

Ans: _____

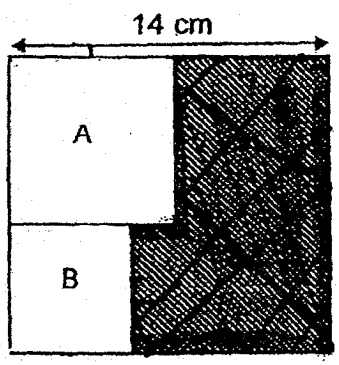
43. Bala bought 7 packets of cookies. Each packet had an equal number of cookies. He gave 8 cookies each to his 36 classmates and had 27 cookies left. How many cookies were there in each packet that Bala bought?

Ans: _____

44. Meili and Lili shared a total of 406 stickers. Meili took $\frac{2}{7}$ of the stickers and Lili took the rest. After Meili bought some stickers, she had the same number of stickers as Lili. How many stickers did Meili buy?

Ans: _____

45. The following figure is not drawn to scale. It is made up of a rectangle and 2 squares, A and B Square A has an area of 49 cm^2 and Square B has an area of 36 cm^2. Find the perimeter of the shaded part.



Ans: _____

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ANSWER KEY

YEAR : 2018
LEVEL : PRIMARY 4
SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA2

SECTION A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	2	3	4	1	3	2	1	4
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	3	4	4	2	4	2	2	2	4

SECTION B

Q21) 40 000

Q22) 2 and 3

Q23) $\frac{1}{3}$

Q24) $\frac{5}{12}$, $\frac{7}{12}$, $\frac{3}{4}$

Q25) 0.9

Q26) 12

Q27) 8.08

Q28) 0.36

Q29) (69°)

90°-21° = 69°

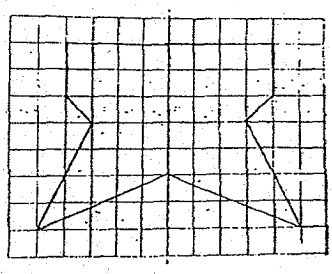
Q30) ($192cm^2$)

$breadth = 24 \div 3 = 8$

Area of shaded part=8×24=192

Q31) Canteen

Q32)



Q33) ($168)

Perimeter= 5+5+9+9=28

Cost=28×6=168

Q34) (80)

Katrina+Lenny=70+55=125

Jax =45

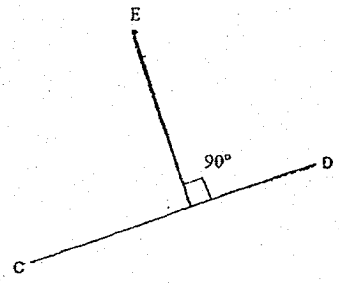
Difference=125-45=80

Q35) (53)

Giselle total beads= 169 – 92 = 77

Giselle total red beads = 77 – 24 = 53

Q36)

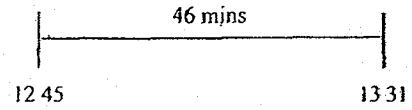


Q37) (17)

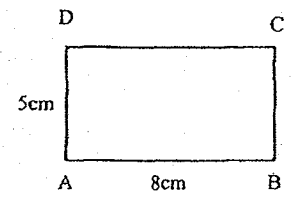
Multiple of 3	3	6	9	12	15
+2	5	8	11	14	17(✓)
Multiple of 5	5	10	15	20	
- 3	2	7	12	17 (✓)	

Q38) (1.31 p.m.)

Total time taken =46 mins



Q39)



Q40) ($41.40)

No. of sets bought= 12 ÷ 2=6

Total price=6×6.90=41.40

SECTION C

Q41a) (45cm)

No. of gap = 5

Length= 5×9=45

b) (15)

130.5÷9=14 Remaining 0.5

max. no. of gap=14

Balloon tied= 14+1=15

Q42)(162)

Diff. = 432−108=324

Beads given away for equal beads= 324÷2=162

Q43) (45)

Total no. of cookies = (36 × 8)+27 = 315

No. of cookie in 1 packet= 315÷7=45

Q44) Lili represented by 5 unit , Meili by 2 unit

Difference = 3 unit

No. of Stickers Meili bought = $406 \times \frac{3}{7}$=174

Q45) (42cm)

Area of A=49 Area of B =36

Length of A=7 Length of B=6

Perimeter of shaded part = 8+8+13+13=42