CATHOLIC HIGH SCHOOL

End-OF-YEAR EXAMINATION (2019)

PRIMARY FOUR

MATHEMATICS

Name : _____ ( )

Class: Primary 4 _____

Date: 25 Oct 2019

Duration: 1 h 45 min

Parent's Signature: _____

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

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

For section A, shade your answers in the Optical Answer Sheet (OAS) provided.

This booklet consists of 20 printed pages excluding the cover page.

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Section A

Questions 1 to 20 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. (40 marks)

1. What is the missing number?

   3 ten thousands + 5 thousands + 8 ones = _____

   (1) 358

   (2) 3058

   (3) 5038

   (4) 35 008

   ( )

2. Which of the following is a multiple of both 6 and 8?

   (1) 12

   (2) 2

   (3) 16

   (4) 24

   ( )

3 Which of the following numbers when rounded to the nearest hundred becomes 19 800?

   (1) 19 705

   (2) 19 749

   (3) 19 801

   (4) 19 850

   ( )

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4. Which of the following is **not** a factor of 12?

(1) 8

(2) 2

(3) 3

(4) 4 ( )

---

5. $\frac{1}{3}+\frac{1}{6}=$ _____

(1) $\frac{1}{18}$

(2) $\frac{2}{9}$

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

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

---

6. In the number 43.21, which digit is in the tenths place?

(1) 1

(2) 2

(3) 3

(4) 4 ( )

---

7. $6\frac{2}{5}=\frac{\square}{5}$

What is the missing number in the box?

(1) 12

(2) 28

(3) 30

(4) 32 ( )

---

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8. Mary had 17 bags of marbles. Each bag contained 25 marbles.
She repacked all the marbles equally into 5 boxes.
How many marbles were there in each box?

(1) 40

(2) 85

(3) 200

(4) 425

( )

---

9. Abby saved 5 times as much as Ben. They saved $4860 altogether.
How much did Ben save?

(1) $810

(2) $972

(3) $4855

(4) $4865

( )

---

10. The price of pens sold in a shop is as follows.

1 pen costs $2.25
A bundle of 4 pens costs $5.70

Roger wants to buy 9 pens. What is the least amount he has to pay?

(1) $7.95

(2) $11.40

(3) $13.65

(4) $20.25

( )

(Go on to the next page)

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11. Jerry bought 6.8 kg of flour. He used 2.95 kg of the flour to make some cookies. How much flour had Jerry left?

(1) 2.27 kg

(2) 3.63 kg

(3) 3.85 kg

(4) 9.75 kg ( )

---

12. The perimeter of a square is 36 cm. Find the length of the square.

(1) 6 cm

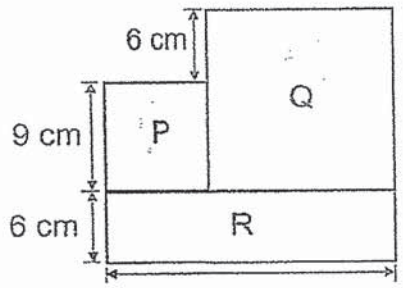
(2) 9 cm

(3) 12 cm

(4) 144 cm ( )

---

13. The figure below is made up of 2 squares, P and Q, and a rectangle R. Find the area of rectangle R.



(1) 54 cm²

(2) 144 cm²

(3) 216 cm²

(4) 255 cm² ( )

---

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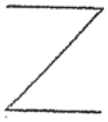
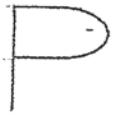
14. In the square grid, which of the following figures is symmetrical?

(1) 

(2)

(3) 

(4)

( )

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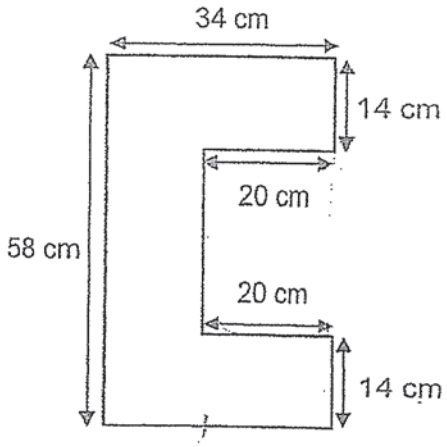
15. Find the perimeter of the following figure. (All lines meet at right angles)



(1) 160 cm

(2) 184 cm

(3) 204 cm

(4) 224 cm

( )

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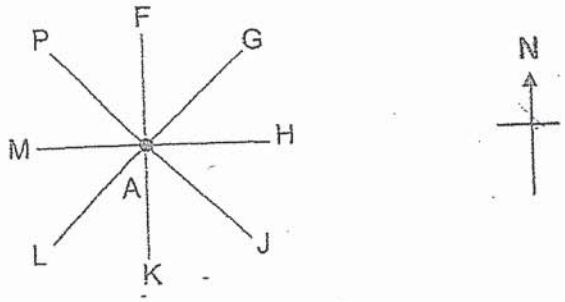
16. Peter is standing at point A. After turning 135° anti-clockwise, Peter is facing south-east. Which point was Peter facing at first?



(1) F

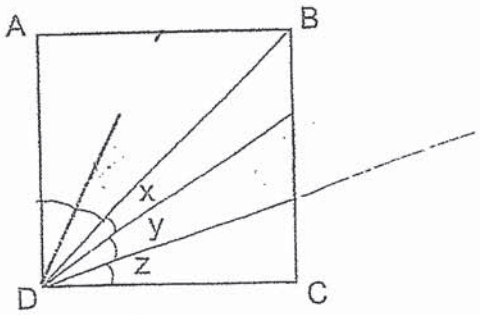
(2) M

(3) H

(4) K ( )

---

17. In the figure below, ABCD is a square. $\angle x = \angle y = \angle z$. Find $\angle x$.



(1) 15°

(2) 30°

(3) 45°

(4) 60° ( )

---

18. Danny left home at 17 00 for the cinema. He spent 2 h 20 min in the cinema. He left the cinema at 19 35.
How long did he take to travel to the cinema?

(1) 5 min

(2) 15 min

(3) 20 min

(4) 35 min ( )

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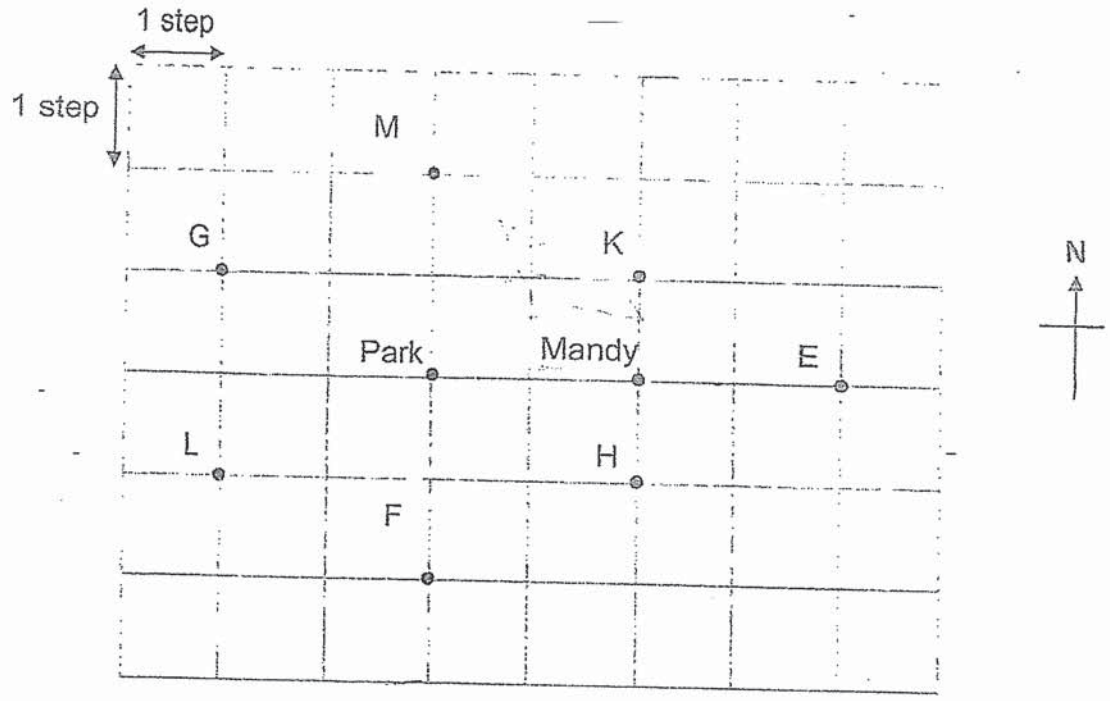
Study the map below carefully and answer questions 19 and 20.



19. Mandy was facing the park. She made a $\frac{1}{4}$-turn in a clockwise direction. Which point was she facing at the end?

(1) F
(2) H
(3) K
(4) M

( )

20. Nathan left his house to go to the park. He took 3 steps north, 2 steps east and 2 steps south from his house to the park. Which point was his house?

(1) G
(2) H
(3) L
(4) K

( )

END OF SECTION A

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Section B

Questions 21 to 40 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. All diagrams are not drawn to scale. (40 marks)

Do not write In this space

21. Write fifteen thousand and twelve in figures.

Ans: _____

22. Write the missing number in the number pattern below.

14 200 , 14 100 , 14 000 , ____?____ , 13 800 , 13 700

Ans: _____

23. 0.7 + 54.32 = _____

Ans: _____

(Go on to the next page

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24. Express $3\frac{1}{50}$ as a decimal.

Do not write in this space

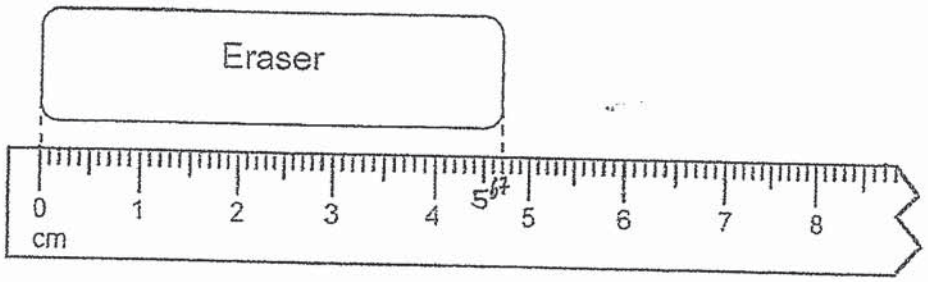
Ans: _____

25. Find the value of $1 - \frac{1}{3} - \frac{7}{12}$.

Ans: _____

26. In the figure below, what is the length of the eraser in cm?

Give your answer as a decimal.



Ans: _____ cm

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27. Some of the factors of 32 are 1, 2, 8 and 32.
What are the other two factors of 32?

Ans:_____

Do not write in this space

28. How many quarters are there in $9\frac{3}{4}$?

Ans:_____

29. When a number is divided by 6, it has a quotient of 1207 and a remainder of 3. What is the number?

Ans:_____

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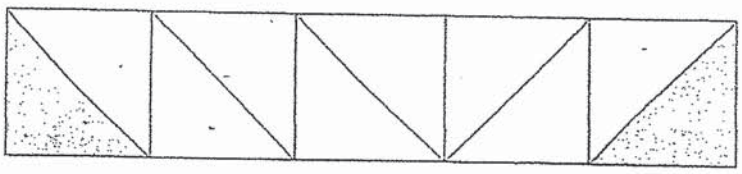
30. How many more triangles must be shaded so that $\frac{3}{5}$ of the figure is shaded?



Ans: _____

Do not write in this space

31. The table below shows the favourite food of all the pupils in 2 classes. Each pupil chose only 1 favourite food.

Class	Burgers	Fried Rice	Pizza
4X	13	17	12
4Y	21	6	11

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (√) to indicate your answer.

	Statement	True	False	Not possible to tell
(a)	The total number of pupils in 4X is more than the total number of pupils in 4Y.			
(b)	More girls than boys in 4Y like burgers.			

(Go on to the next page)

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32. Tom and Sandy have a total of 2460 beads. Sandy has twice as many beads as Tom. How many beads must Sandy give to Tom so that each of them has an equal number of beads?

Do not write in this space

Ans: _____

33. $64 was shared by 5 boys equally.
How much money did 2 boys receive?

Ans:$ _____

34. Dayrus paid $9.60 for 5 pens and a marker. 1 marker cost thrice as much as a pen. How much did a pen cost?

Ans:$ _____

(Go on to the next page)

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35. The poster below shows the opening hours of a clinic on a Saturday. How long is the clinic open on a Saturday?

Do not write in this space

Clinic's Opening Hours

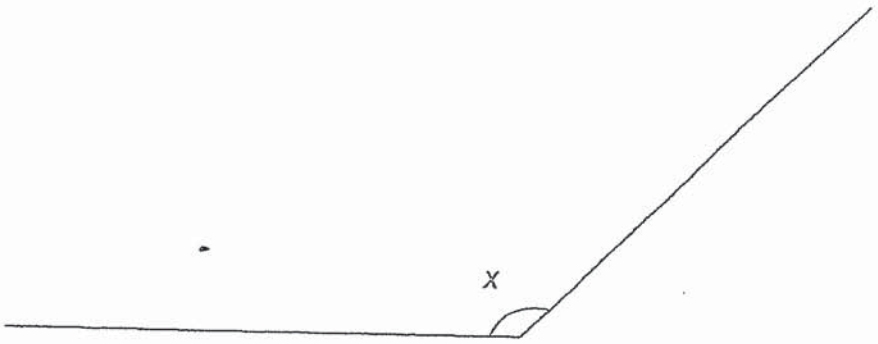
Saturday

08 00 to 12 30

14 30 to 16 45

Ans: _____ min

36. Measure and write down the size of ∠x.



Ans: _____ °

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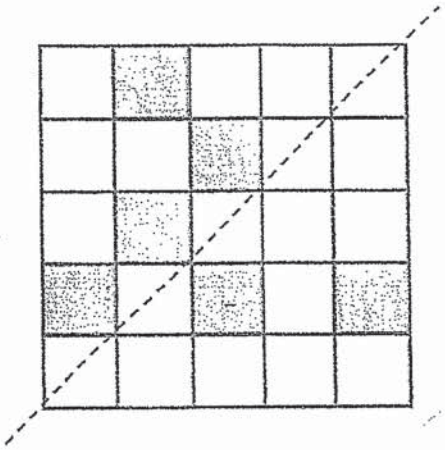
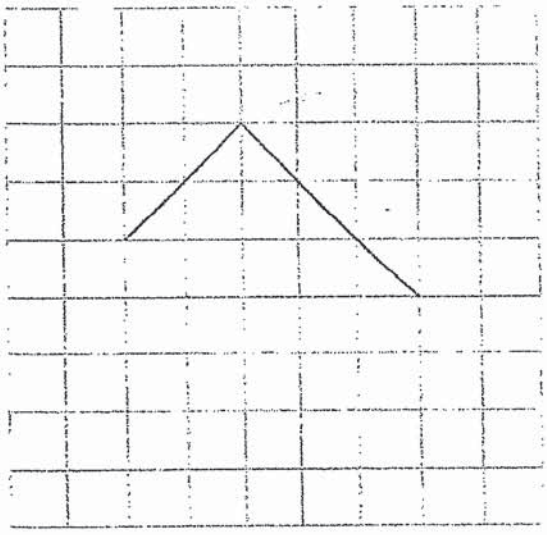
37. In the square grid below, shade two unit squares so that the dotted line is a line of symmetry.

Do not write in this space



38. In the square grid below, draw a rectangle from the given lines.



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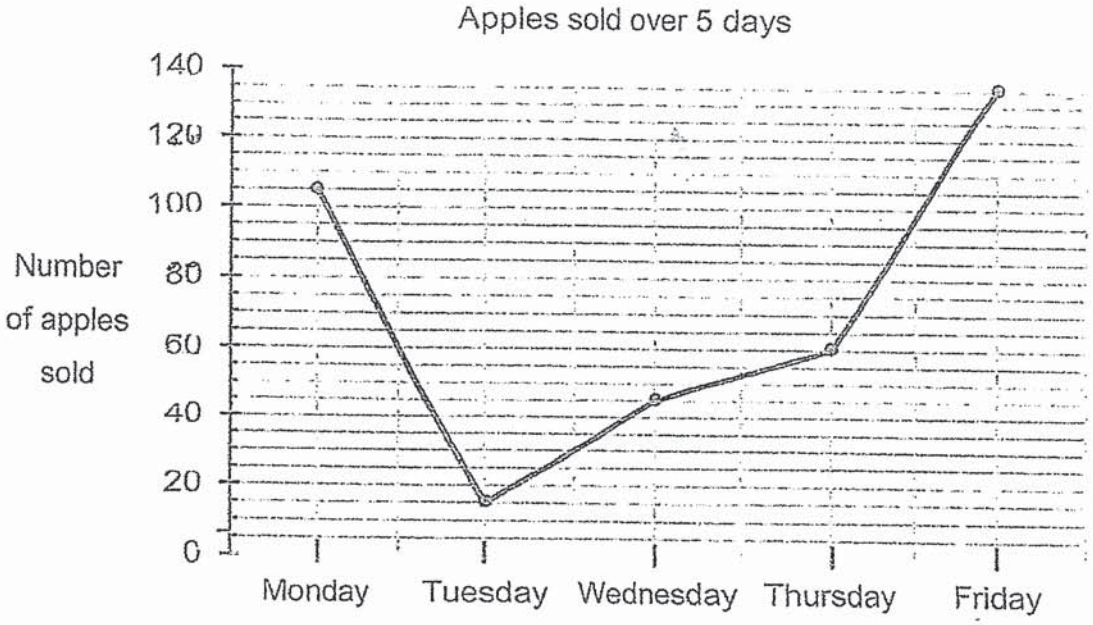
The line graph below shows the number of apples sold from Monday to Friday. Study the following graph carefully and use it to answer questions 39 and 40.

Do not write in this space



39. On which day was the number of apples sold 3 times the number of apples sold on Wednesday?

Ans: _____

40. During which 1-day interval was the increase in the sale of the apples the greatest?

Ans: From _____ to _____

Total marks for question 21 to 40

40

END OF SECTION B

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42. Ethan had some money at first. He spent $\frac{4}{9}$ of it on a meal and \$58 on groceries. He then had \$72 left.

(a) How much money did he have at first?

(b) How much money did he spend on the meal?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

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Section C

For Questions **41** to **45**, 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. All diagrams are not drawn to scale.

(20 marks)

Do not write in this space

41. Larry had 35 more cookies than Kenny. Matthew had twice the total number of cookies that Larry and Kenny had. The 3 boys had 717 cookies altogether. How many cookies did Kenny have?

Ans: _____ [4]

(Go on to the next page)

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43. The total mass of a container and a watermelon was 2.36 kg. When some oranges were added to the container, the total mass became 3.26 kg. The mass of the watermelon was twice the mass of all the oranges.

(a) Find the mass of the watermelon.

(b) Find the mass of the container.
Give your answer in kilograms.

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

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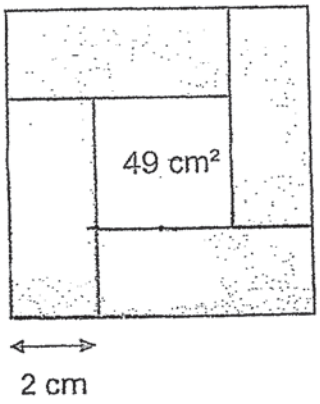
44. The following figure is formed by 4 identical shaded rectangles and an unshaded square. The area of the unshaded square is 49 cm². Find the total area of the 4 shaded rectangles.

Do not write in this space



Ans: _____ [4]

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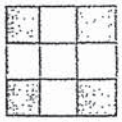
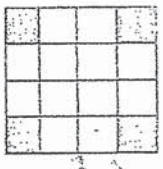
45. The patterns below are made up of identical shaded and identical unshaded squares.

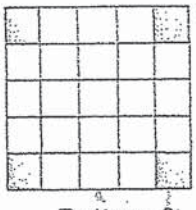
Do not write in this space



Pattern 1



Pattern 2



Pattern 3

Pattern Number	Number of shaded squares	Number of unshaded squares	Total number of squares
1	4	5	9
2	4	12	16
3	4	21	25

a) Find the total number of squares in Pattern 4.

Ans: _____ [1]

b) Find the number of unshaded squares in Pattern 4.

Ans: _____ [1]

c) Which Pattern Number has a total of 100 squares?

Ans: _____

END OF PAPER

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ANSWER KEY

YEAR : 2019
LEVEL : PRIMARY 4
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : MATHEMATICS
TERM : END YEAR EXAMINATION

SECTION A

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

SECTION B

Q21) 15 012

Q22) 13 900

Q23) 55.02

Q24) 3.0? 3.02

Q25) $\frac{1}{12}$

Q26) 4.7cm

Q27) 16, 4

Q28) 39

Q29) 7245

Q30) 4

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Q31) a: true **b: Not possible to tell**

Q32) 410

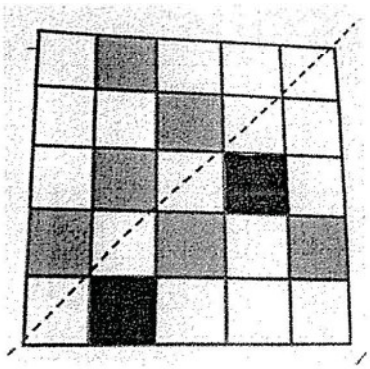
Q33) $25.60

Q34) $1.20

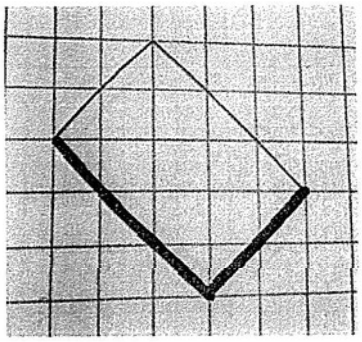
Q35) 6h 45min

Q36) 135°

Q37)



Q38)



Q39) Friday

Q40) Thursday to Friday

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SECTION C

Q41) 35 x 3 = 105

6u → 717 – 105

= 612

1u → 612 ÷ 6

= <u>102</u>

Q42a) 5u → 58 + 72

= 130

1u → 130 ÷ 5

= 26

9u → 26 x 9

= <u>$234</u>

Q42b) 4u → 26 x 4

= <u>$104</u>

Q43a) 3.26 – 2.36 = 0.9

0.9 x 2 = <u>1.8kg</u>

Q43b) 3.26 – 1.8 – 0.9 = <u>0.56kg</u>

Q44) Length of Rec → 7 + 2

= 9

Breadth of Rec → 2

Area of Rec → 9 x 2

= 18

Total area of 4 shaded Rec → 18 x 4

= <u>72cm^2</u>

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Q45a) 36

Q45b) 32

Q45c)

Pattern number	Number of shaded squares	Number of unshaded squares	Total number of squares
5	4	45	49
6	4	60	64
7	4	77	81
8	4	96	100

ANS : 8

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