Catholic High School
End-of-Year Examination 2010
Mathematics
Primary 4

Name : _____( )

Class: Primary 4 _____

Date: 26 October 2010

Duration: 1 h 45 min

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

Parent's Signature: _____

There are 3 sections consisting of 21 pages in this paper.

Section A: Multiple-Choice Questions (MCQ) 20 x 2 marks

Section B: Short-Answer Questions 20 x 2 marks

Section C: Long-Answer Questions 5 x 4 marks

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Section A : Multiple-Choice Questions (40 marks)

For Questions 1 – 20, choose the correct answer and shade its number 1, 2, 3 or 4 in the Optical Answer Sheet (OAS) provided. Please use only 2B pencil and SHADE the oval completely. Each question carries 2 marks. All diagrams are not drawn to scale.

1. Which of the following numbers when rounded off to the nearest ten becomes 96 500?

   (1) 96 444
   (2) 96 497
   (3) 96 505
   (4) 96 554 ( )

2. Complete the following number pattern.

   9 , 16 , 25 , _____ , _____ , 64

   (1) 34 , 43
   (2) 35 , 46
   (3) 36 , 49
   (4) 38 , 45 ( )

3. Find the value of $\frac{7}{12} - \frac{2}{9}$.

   (1) $\frac{5}{12}$
   (2) $\frac{5}{9}$
   (3) $\frac{13}{36}$
   (4) $\frac{5}{3}$ ( )

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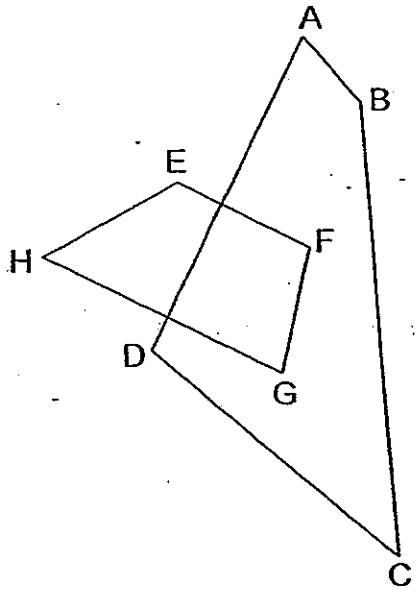
4. $6\frac{7}{8} = \frac{\square}{8}$

What is the missing number in the box?

(1) 13
(2) 21
(3) 42
(4) 55

( )

5. One of the lines in the figure is parallel to EF. Which line is parallel to EF?



(1) HG
(2) FG
(3) AD
(4) DC

( )

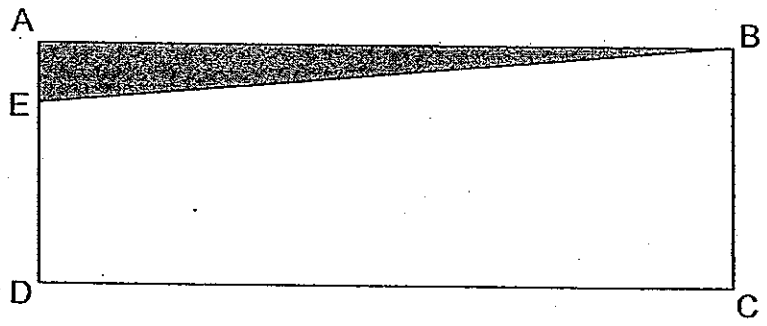
6. Write $8\frac{7}{20}$ as a decimal.

(1) 8.72
(2) 8.7
(3) 8.35
(4) 8.035

( )

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7. In the figure below, ABCD is a rectangle. The length of ED is 3 times as long as AE. What fraction of the ABCD is shaded?



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

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

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

(4) $\frac{1}{8}$

( )

8. How many 4-digit numbers which are smaller than 4000 can be formed using the digits 9, 4, 3 and 7?

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

( )

9. Russell uses four letters A, B, C, and D to form a pattern. The first 16 letters are shown below. Which letter is in the 74th position?

A	A	B	B	C	C	D	D	A	A	B	B	C	C	D	D	...	?
1st															16th		74th

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

( )

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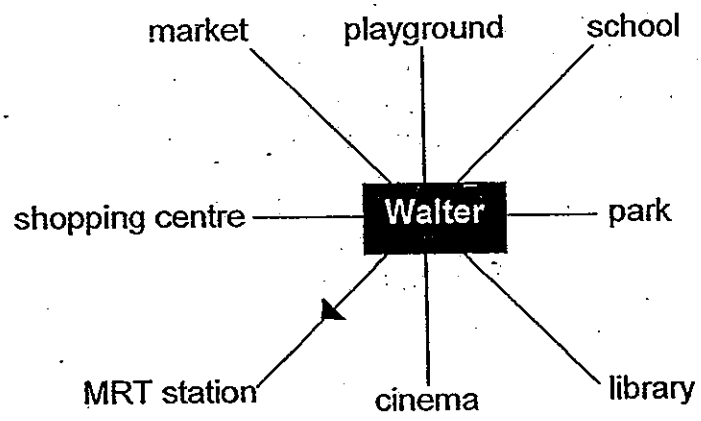
10. What is the missing number in the box?

$$640 \times 5 \times 7 = 640 \times \square + 640 \times 5$$

(1) 7
(2) 30
(3) 35
(4) 175

( )

11.



Walter faces the MRT station after turning 225° anti-clockwise. Where was he facing before the turn?

(1) park
(2) library
(3) playground
(4) shopping centre

( )

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12. Jaclyn had a roll of ribbon 10 m in length. She used $\frac{2}{5}$ of the ribbon for a Teacher's Day present and her sister used $2\frac{1}{4}$ m of the remaining ribbon to wrap a birthday present. What was the length of the ribbon she had left?

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

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

(3) $7\frac{7}{20}$ m

(4) $8\frac{7}{20}$ m

( )

13. A clinic opens every day for the time shown in the table below.

Opening Hours
8.30 a.m. to 1.00 p.m. 2.00 p.m. to 5.30 p.m. 6.45 p.m. to 9.30 p.m.

How many hours and minutes is the clinic open each day?

(1) 10 h 30 min

(2) 10 h 45 min

(3) 11 h 15 min

(4) 11 h 30 min

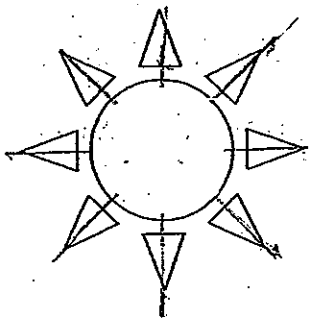
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14. Subtract 80 hundredths and 9 thousandths from $8\frac{8}{1000}$.

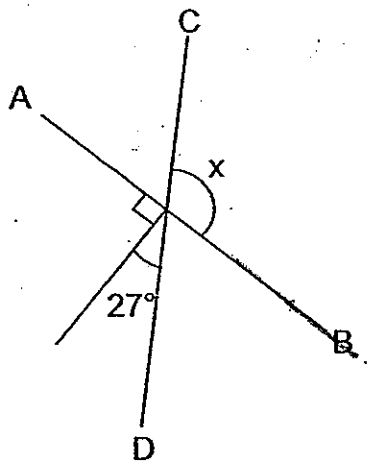
(1) 7.199
(2) 7.291
(3) 7.919
(4) 7.991 ( )

15. The figure below is made up of a circle and 8 identical triangles spaced out equally around the circle. How many lines of symmetry are there in the figure below?



(1) 4
(2) 8
(3) 12
(4) 16 ( )

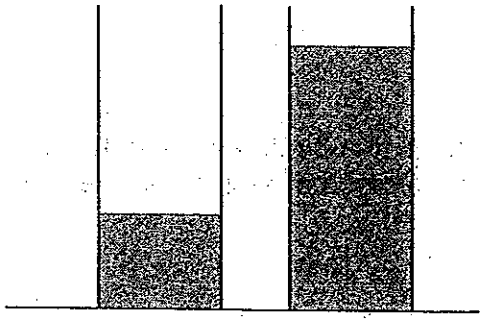
16. AB and CD are straight lines. What is the value of $\angle x$?



(1) 63°
(2) 117°
(3) 153°
(4) 243° ( )

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17. John had two identical containers, A and B. $\frac{1}{4}$ of container A and $\frac{11}{12}$ of container B ~~are~~ were filled with water. John poured some of the water from container B into container A so that the two containers contained the same amount of water. What fraction of container A was filled with water after the pour?



Container A Container B

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

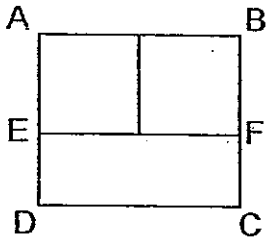
(2) $\frac{3}{4}$

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

(4) $\frac{7}{12}$

( )

18. The figure ABCD is made up of a rectangle and 2 identical squares. The perimeter of the rectangle CDEF is 96 cm. ED is $\frac{1}{3}$ of EF. Find the perimeter of a square.



(1) 36 cm

(2) 48 cm

(3) 64 cm

(4) 72 cm

( )

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19. Fruit-pickers collected lemons from the orchard and sorted them into 3 different sizes. $\frac{3}{7}$ of the lemons collected were medium in size. $\frac{2}{5}$ of them were small while the rest were large. If there were 960 large lemons, how many small lemons were collected?

(1) 1 120
(2) 1 200
(3) 2 240
(4) 2 400

( )

20. Matthew, Roy and Leon each had some cards at first. After Matthew and Roy gave away a few cards and Leon gave away 6 cards, they had 78 cards left altogether. Matthew had twice as many cards as Roy. Leon had 8 more cards than Matthew. How many cards did Leon have at first?

(1) 14
(2) 16
(3) 30
(4) 42

( )

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Section B: Short Answer Questions (40 marks)

Question 21 to 40 carries 2 marks each. Write your answer in the blank provided.

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21. Write seventy thousand and seventy in figures.

Ans: _____

22. What is the first common multiple of 6 and 8?

Ans: _____

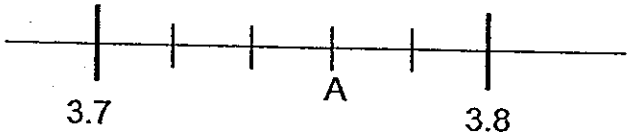
23. Write $\frac{52}{12}$ as a mixed number in its simplest form.

Ans: _____

24. Find the value of $2 - \frac{4}{5} \cdot \frac{1}{3}$

Ans: _____

25. Write the decimal represented by A.



Ans: _____

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26. Round off 5.049 to 1 decimal place.

Ans: _____

27. Find the value of 18.07 x 6.

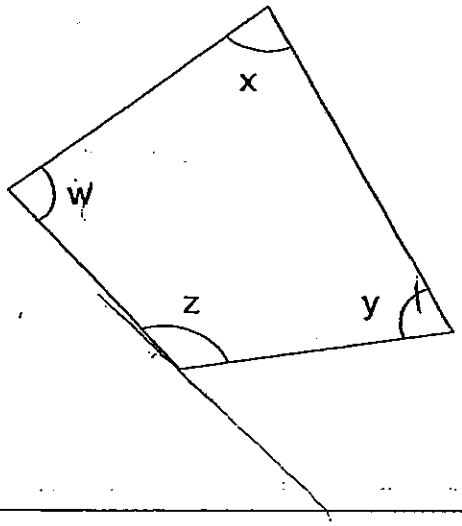
Ans: _____

28. Arrange the following decimals from the smallest to the greatest.

7.5 , 0.75 , 7.05 , 0.57

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

29. In the figure, one of the angles is greater than a right angle. Name the angle.



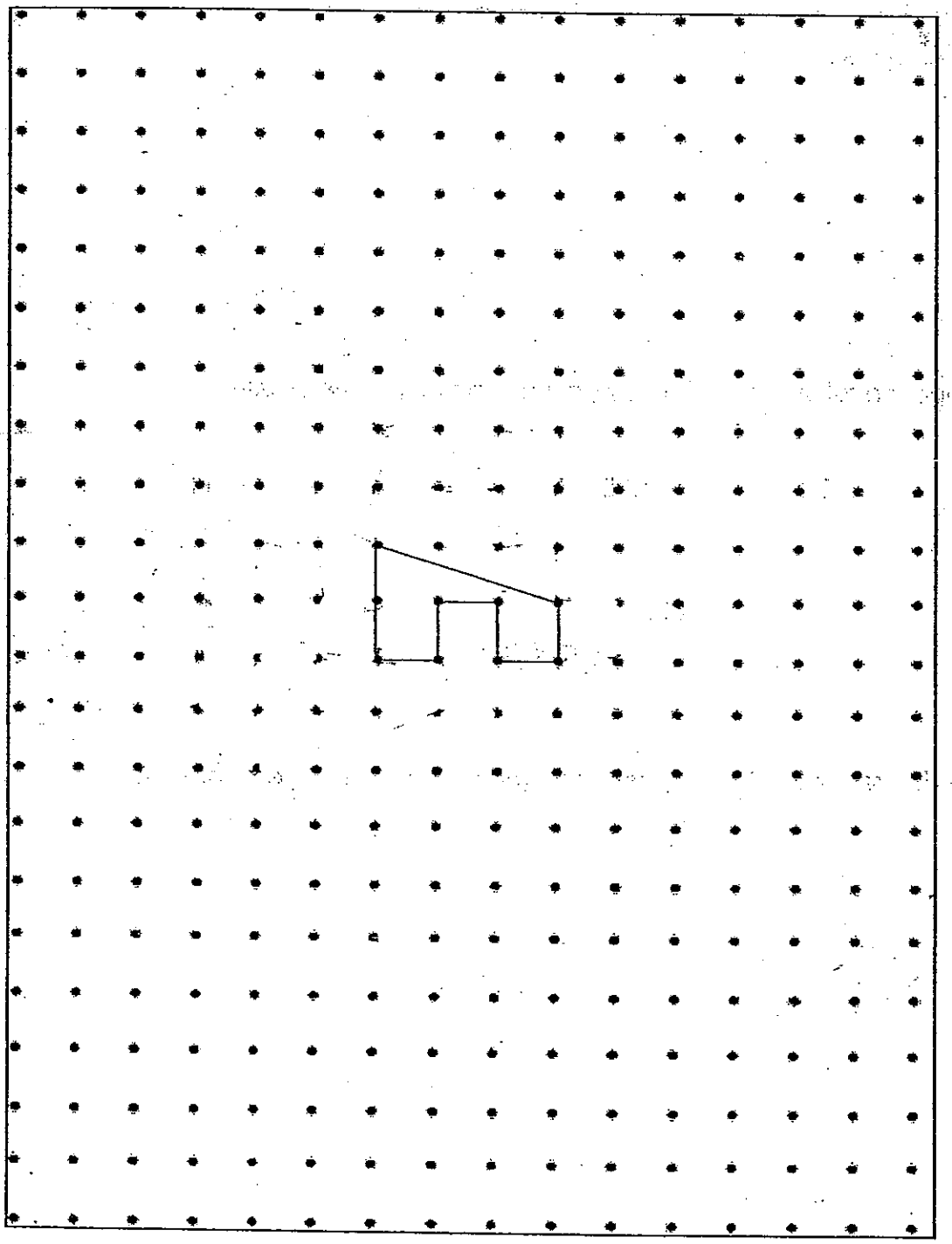
Ans: ∠_____

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30. In the box below is a unit shape of a tessellation. Tessellate by drawing another 4 unit shapes within the square grid.

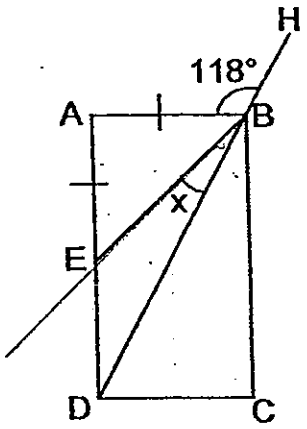


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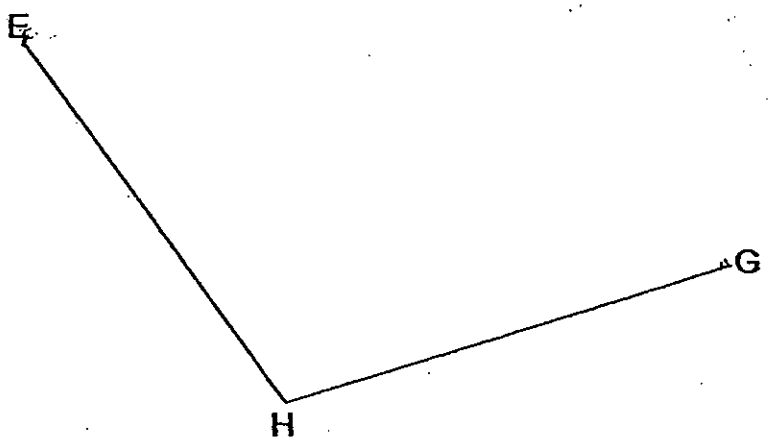
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31. ABCD is a rectangle. EB and DH are straight lines. If AB = AE, what is the value of $\angle x$?



Ans: _____ °

32. On the figure below, draw two lines EF and FG such that EF is parallel to HG and FG is perpendicular to HG.



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33.

 x  = 25

 +  = 6.2

 x  x  = 28.2

Find the value of 

Ans: _____

34. When the time is 2015 in Singapore, it would be 2215 in Melbourne. Ian boarded a plane and took off from Singapore at 2130. When it landed in Melbourne, Ian checked a clock at the airport and it showed 0945. How long was the flight?

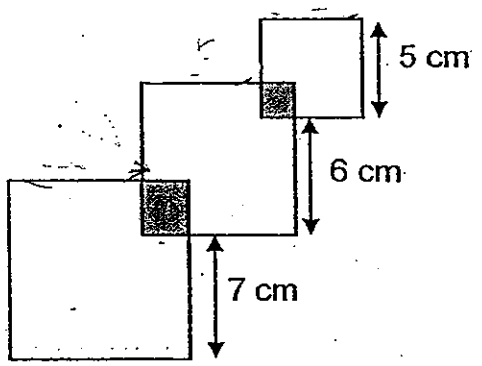
Ans: _____ h _____ min

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35. Three squares of different sizes are placed together to form the figure below. They overlapped at the corners forming the shaded squares. Find the perimeter of the figure.



Ans: _____ cm

36. Alex bought some chocolate bars and lollipops for his birthday party. Each chocolate bar cost $2 and each lollipop cost 25¢. He bought four times as many lollipops as chocolate bars and paid a total of $45 for them. How many chocolate bars did he buy for his party?

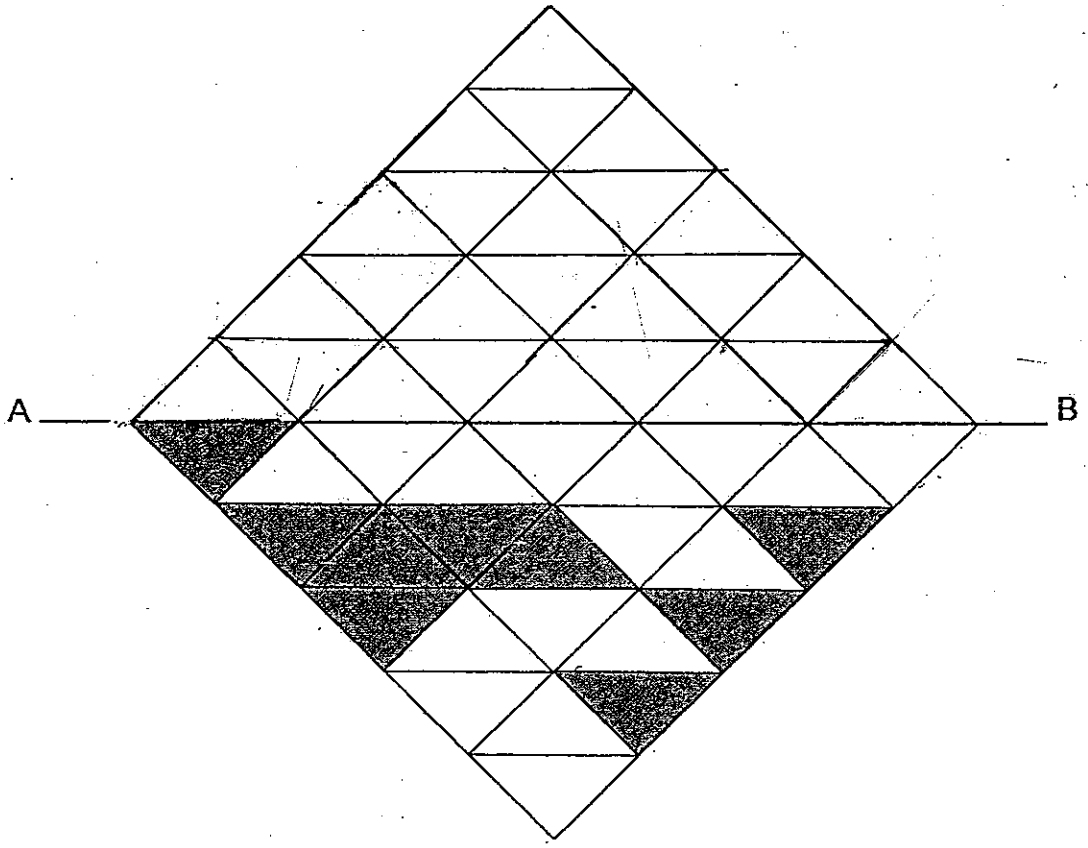
Ans: _____

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37. Shade to make a symmetric pattern with the line AB as the line of symmetry.



38. Samuel had four times as many stamps as Mitchell at first. When both added an equal number of stamps to their collection, Mitchell had 66 stamps and Samuel had thrice as many stamps as Mitchell. How many stamps did each of them add to their collection?

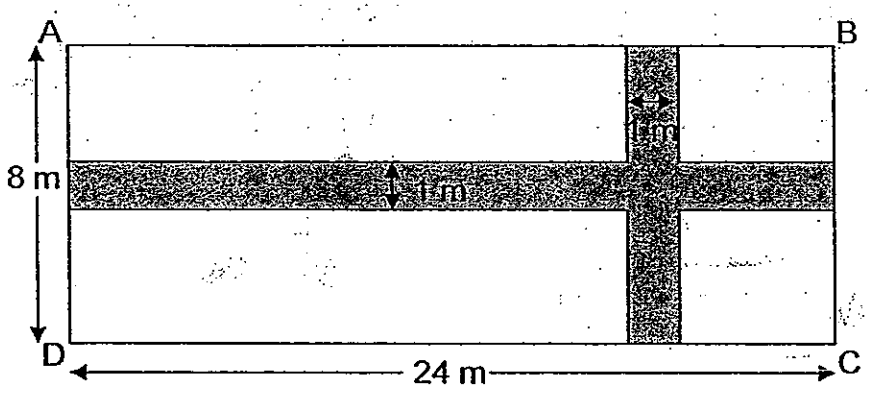
Ans: _____

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39. ABCD is a rectangular garden 24 m long and 8 m wide. Two pebble pathways are laid across as shown below. Each pebble pathway is 1 m wide. What area of the garden is not covered by the pebble pathways?



Ans: _____ m^2

40. Ernest has a collection of 125 fiction and non-fiction books. $\frac{2}{5}$ of the fiction books is equal to $\frac{3}{5}$ of the non-fiction books. How many more fiction books than non-fiction books are there in his collection?

Ans: _____

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Section C: Long Answer Questions (20 marks)

Question 41 to 45 carries 4 marks each. Write your answer in the blank provided. Show your workings clearly.

41. There were a total of 60 men and women in the school hall. There were 4 times as many women as men. After 18 women and some men walked out of the hall, the number of women who remained in the hall was three times as many as the men who stayed in the hall. How many men walked out of the hall?

Ans: _____ [4]

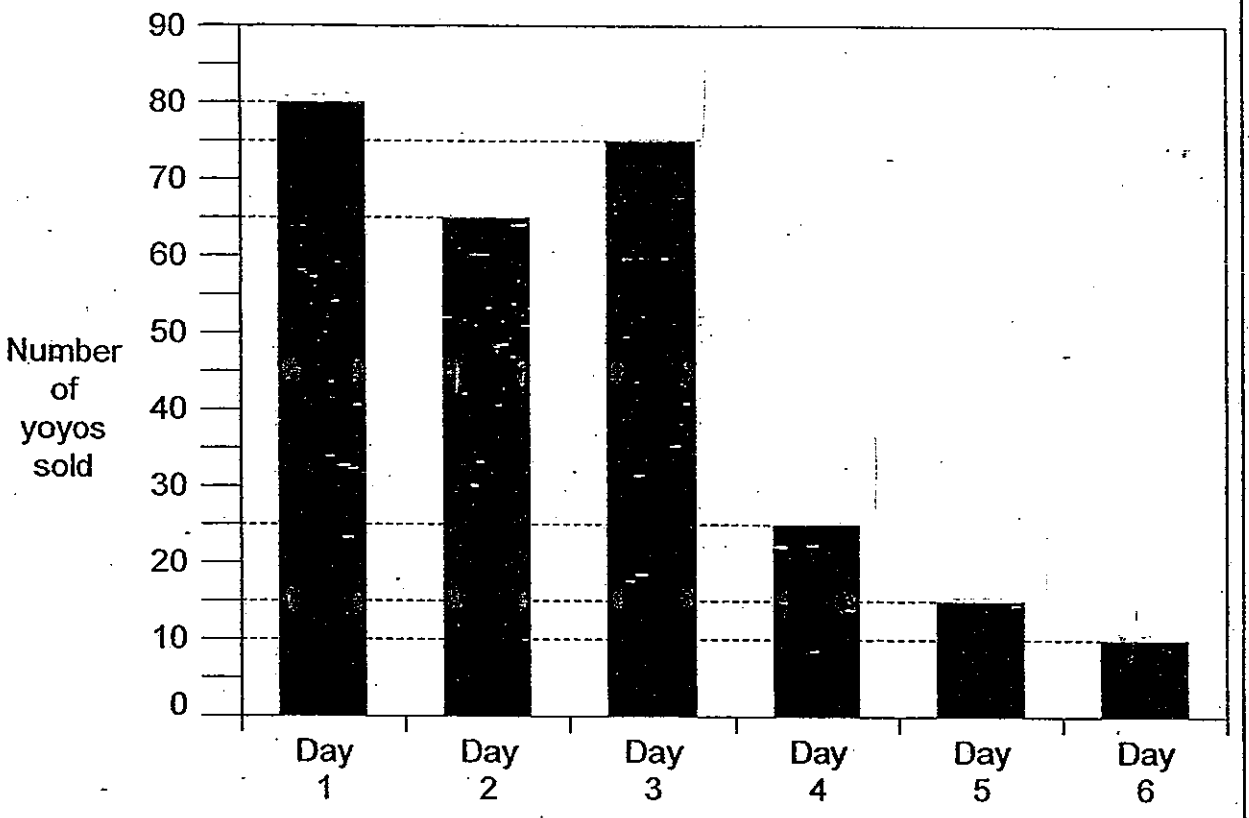
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42. A toy shop had 300 yoyos for sale. Each yoyo is sold at $2. At the end of each day, the number of yoyos sold was recorded. The bar graph below shows the records.



(a) What fraction of the total number of yoyos was left at the end of day 3? Express your answer in its simplest form.

(b) If the toy shop decided to sell every 5 yoyos at $9.30 from day 4 onwards, how much less would he collect from the sale of yoyos at the end of day 6?

Ans: (a) _____ [2]

(b) _____ [2]

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43. 1 carton of oranges and 2 cartons of apples cost \$140. If $\frac{1}{6}$ carton of oranges and 1 carton of apples cost \$30, how much does 1 carton of oranges cost?

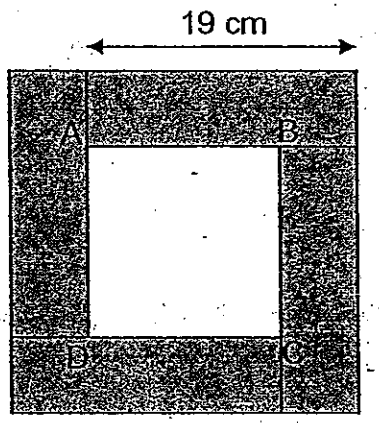
Ans: _____ [4]

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44. 4 identical rectangles are arranged as shown below. The length of each rectangle is 19 cm. The unshaded area ABCD is 121 cm^2. What is the total area of the 4 rectangles?



Ans: _____ [4]

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45. John divided the corridor of a school building into equal parts of length 4 m. To each part, he placed 2 potted plants as shown in Figure 1.

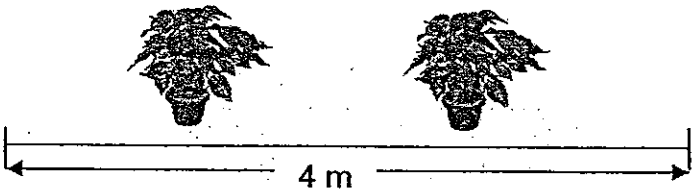


Figure 1

For the same corridor, he divided it into equal parts of length 6 m and to each part, he hung 5 lanterns as shown in Figure 2.

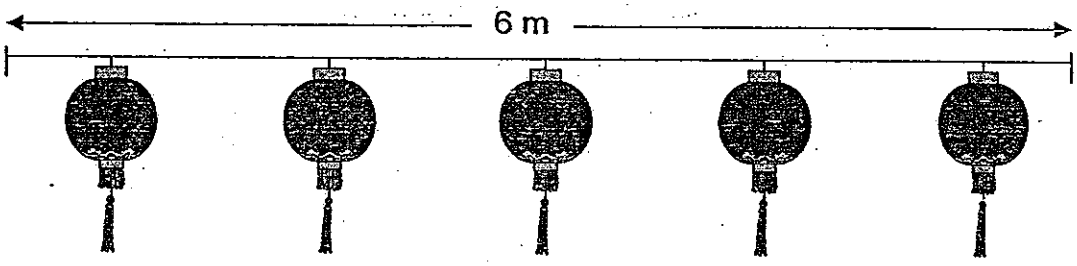


Figure 2

If there were 24 more lanterns than potted plants, how long was the corridor?

Ans: _____ [4]

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Ans

EXAM PAPER 2020

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SUBJECT : PRIMARY 4 MATHEMATICS

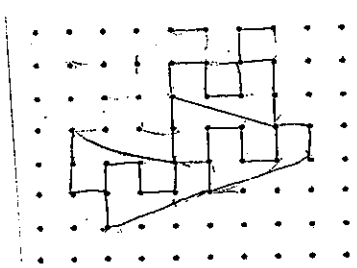
TERM : SA2

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

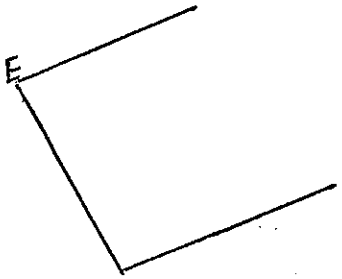
Q18	Q19	Q20
4	3	4

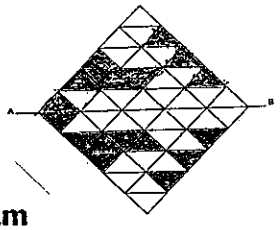
21)70070 **22)24** **23)$4\frac{1}{3}$** **24)13/15** **25)3.76**

26)5.0 **27)10842** **28)0.57, 0.75, 7.05, 7.5** **29)Z**

30) 

31)17°

32) 

33)4.7 **34)10 h 15 min** **35)72cm** **36)15** **37)** 

38)22 **39)161m^2** **40)25** **41)2**

42)a)4/15 **b)$7.00** **43)$120** **44)608cm^2** **45)72m**

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