

SEA Practice Test 4

MATHEMATICS

Based on the Revised SEA Framework 2021-2023

School:

Student's Name:

Date:

INSTRUCTIONS

This test is divided into THREE sections with a total of 40 questions.

SECTION 1 has 20 questions (nos. 1-20), Section 2 has 16 questions (nos. 21-36) and SECTION 3 has 4 questions. (nos. 37-40).

You have 75 minutes to answer ALL questions. Read each question carefully and show all working in the space provided. Marks will be given for correct steps taken.

DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.

SEA Practice Test 1 - Mathematics (75 minutes)

Section 1

1.
$$\begin{array}{r} 8526 \\ - 6957 \\ \hline \end{array}$$

Answer: _____ (1 mark)

2. Express 65% as a fraction in its lowest term.

Answer: _____ (1 mark)

3. Multiply 38.6 by 3.

Answer: _____ (1 mark)

4. How many pieces 20cm lengths of strings can be cut from a roll of thread 1.2 m long?

Answer: _____ (1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

5. A car is driving up hill. For every three meters that the car progresses, it slides downward by a $\frac{1}{4}$ meter. What distance would the car have gone after the sixth time it slides downwards?

Answer: _____

(1 mark)

-
6. Write in words the number represented in the place value chart below.

Hundreds of thousand	Tens of thousands	Thousands	Hundreds	Tens	Ones
8	3	2	0	9	5

Answer:

(1 mark)

-
7. Subtract 52.3 from 61.04.

Answer: _____

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

8. Using the digits 3, 1, 4, 6, 8 , form the smallest odd number.

Answer: _____

(1 mark)

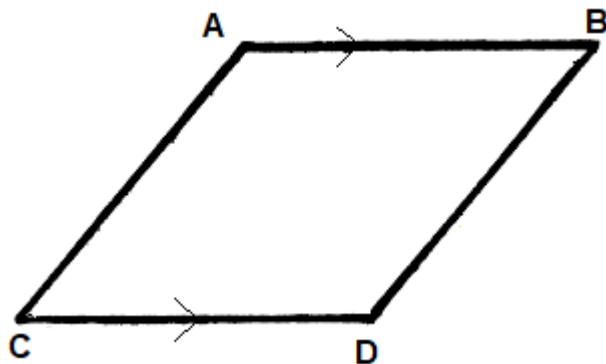
9. Complete the statement.

$$\sqrt{49} + 6 = 2^2 + \square.$$

Answer: _____

(2 mark)

10. What do you call lines AB and CD?



Answer: _____

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

11. Change $4\frac{1}{8}$ to an improper fraction.

Answer: _____

(1 mark)

12. $\frac{2}{5}$ of a number is 50. What is the number?

Answer: _____

(2 mark)

13. What is $60 \div \frac{1}{4}$?

Answer: _____

(1 mark)

14. Write 2.5% as a fraction.

Answer: _____

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

15. Write the next term in the sequence below.

FA, GB, HC, ID, JE, _____

Answer: _____

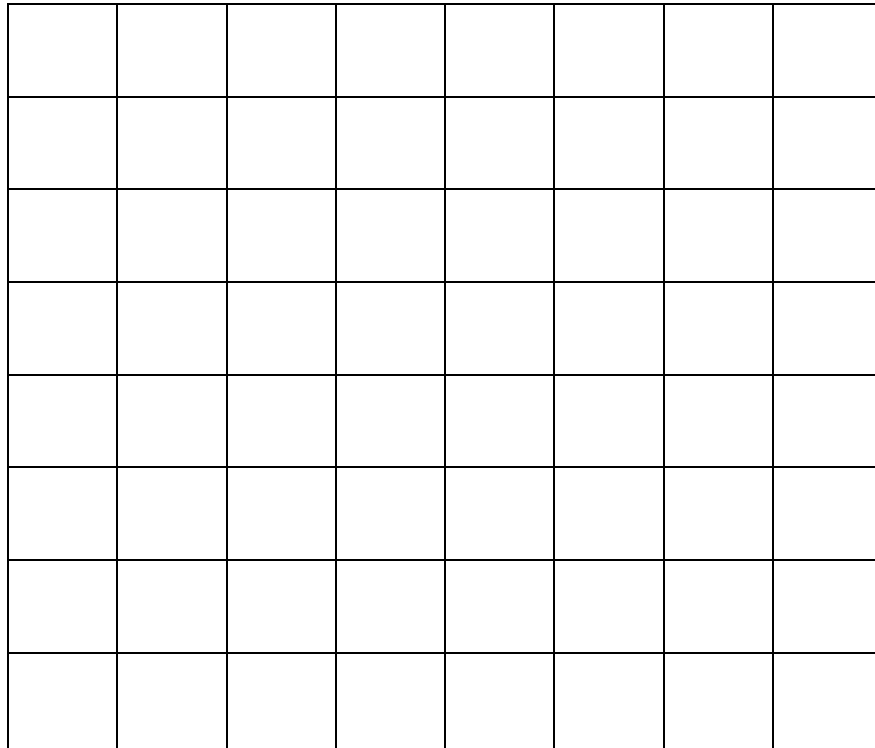
(1 mark)

16. What is the least number of coins needed to make 40 cents..

Answer: _____

(1 mark)

17. On the grid below, each small square has an area of 2cm^2 . Draw a shape with the area of 40cm^2 .



(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

18. Mother adds a $\frac{1}{4}$ tablespoon of sugar for every litre of sorrel juice to sweeten. How much sugar would she need to sweeten 16 litres of sorrel juice?

Answer: _____

(1 mark)

19. What is the difference in the length of both fish below?

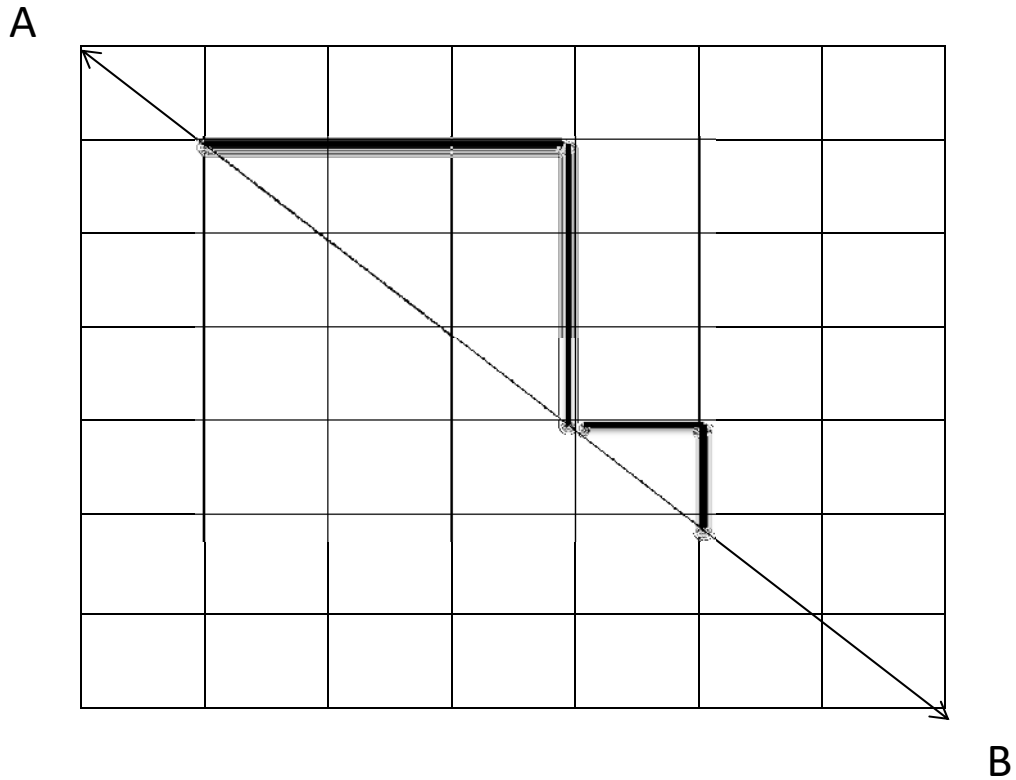


Answer: _____

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

20. Complete the shape below using the AB line of symmetry.



SECTION 2

21. Mother shared 184 dollars among her 3 children. She gave Latisha 30% and the balance of money was shared equally between Lucy and Mark. Calculate the amount of money each child received.

Answer: _____

(2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

22. Vivian is 7 years old. Her father is six times her age. Her mother is 4 years younger than her father. How old are Vivian's parents?

Answer: _____

(2 marks)

23. The pictograph graph shows the number of toys owned by each child..

Boys	Number of toys
Philip	   
Mason	      
Corey	     
Ted	  

 = 2 toys

How many toys do the boys have in total?

Answer: _____

(2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

24. $\frac{1}{8}$ of a number is 30. What is $\frac{1}{4}$ of the same number?

Answer: _____

(2 mark)

25. Mother bought 150 hair pins. She kept 10 and gave Brenda $\frac{4}{10}$ and shares the rest equally between Mariam and Clara. What percent of the hairpins did Clara get?

Answer: _____

(2 mark)

26. An oak tree is planted in the park. Every week it grows 23cm. How long would it take the tree to reach 5 metres tall?

Answer: _____

(2 mark)

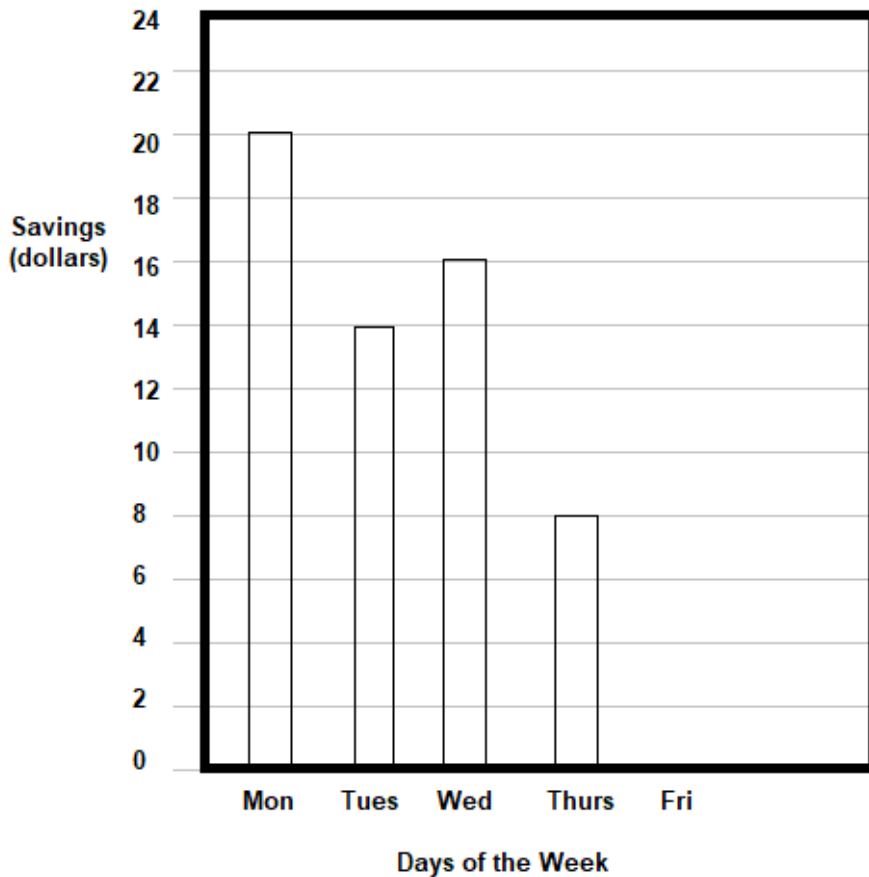
SEA Practice Test 1 - Mathematics (75 minutes)

27. $9\frac{1}{2} - 4\frac{3}{4}$

Answer: _____

(2 mark)

28. The graph shows the number of savings for Adrian for the week. Adrian saved a total of \$77.00 from Monday to Friday.



Complete the graph to show the savings on Friday.

Answer: _____

(2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

29. Flo is buying a suitcase priced for \$350. The VAT for the item is 12.5%. How much does Flo pay for the suitcase?

Answer: _____ (2 marks)

30. Gayle picked mangoes to sell in the market. She counted a total of 90 mangoes and plans to sell them in heaps of 3 at \$8.50 per heap. How much money would Gayle have if she sold 40% of the mangoes by midday?

Answer: _____ (3 marks)

31. A suite of furniture cost \$7800. A customer gets a discount of 12%. How much would the customer pay for the suite?

Answer: _____ (2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

32. A barrel is to be filled with 60 litres of water. How much buckets of water would fill half the barrel?



Barrel



Bucket

Answer: _____

(2 mark)

-
33. Vincent is tiling his square living room floor with a side of 5 m. Each tile measures 20cmx20cm and cost \$5.00 each. How much will Vincent pay for the tiles to cover the living room floor?

Answer: _____

(3 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

34. a) Name the solid below.



Answer: _____

(1 mark)

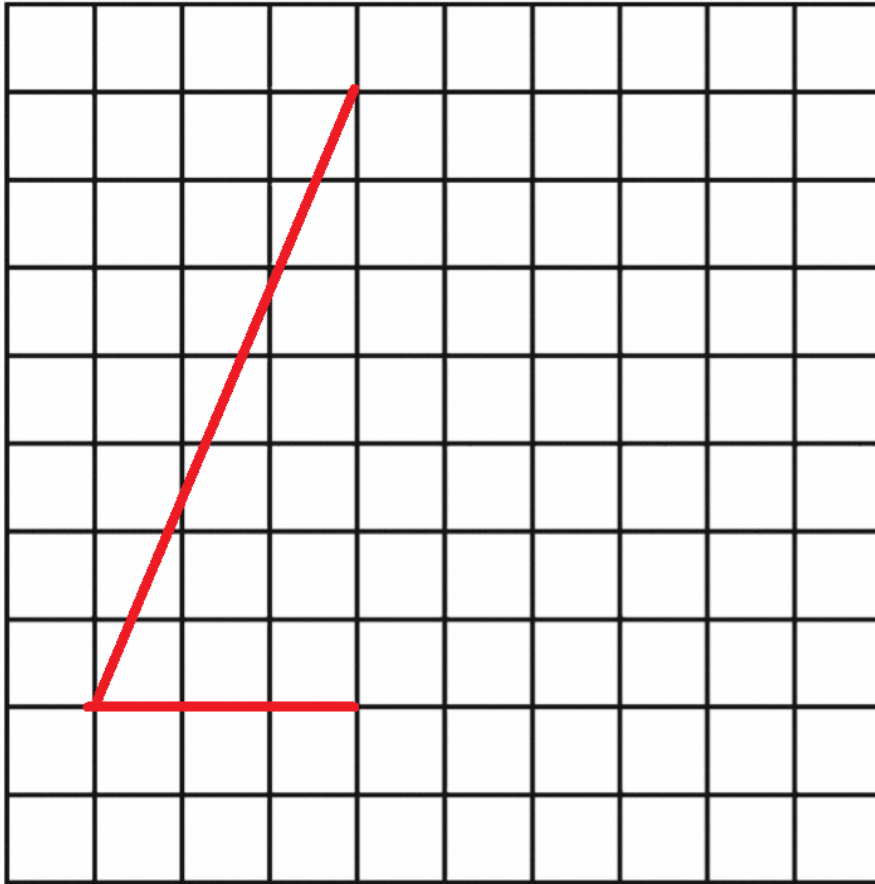
b) Draw the plane shapes that are used to create the above solid in the space below.

Answer: _____

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

35. (a) Using the grid, complete the shape below to form an isosceles triangle.



(1 mark)

(b) How many lines of symmetry are there in the triangle you drew?

Answer: _____

(1 mark)

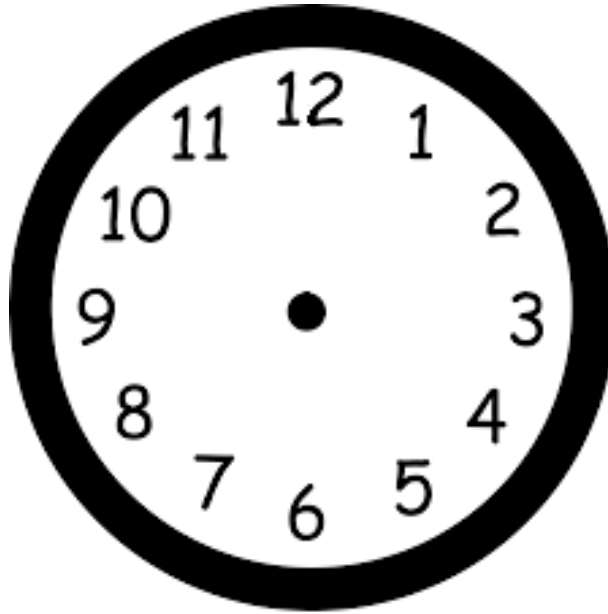
(c) Name one property of an isosceles triangle.

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

36. Luis takes $1\frac{1}{2}$ hours to get to work every day. He must be at work at 7:30 a.m.

- (a) What time should Luis leave home to get to work on time. Show the time on the clock below.



(1 mark)

- (b) Luis earns \$23.00 per hour. If his work day ends at 4:30 p.m. How much would he earn for the day?

Answer: _____

(2 marks)

SEA Practice Test 1 - Mathematics (75 minutes)

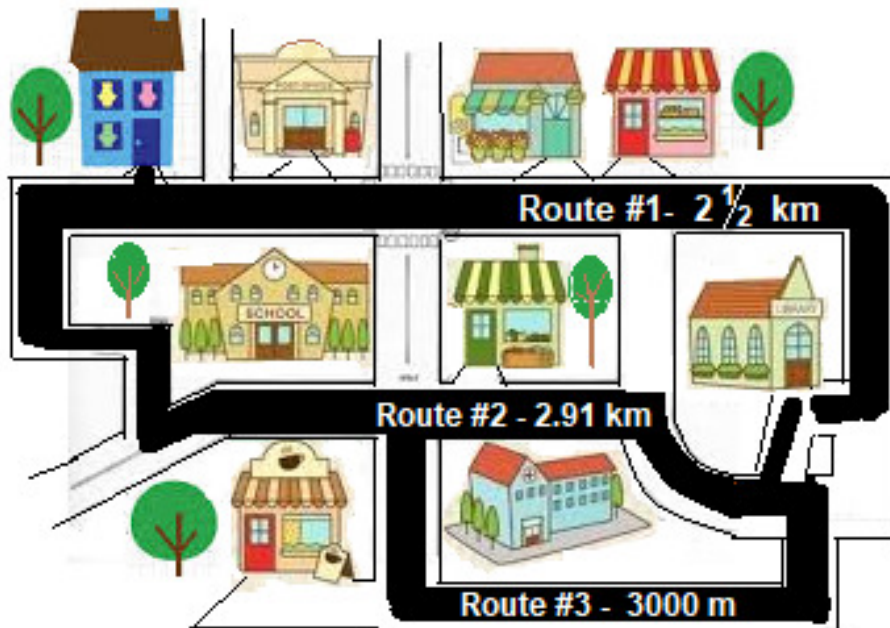
SECTION 3

37. A container holds 240 marbles. $\frac{1}{3}$ of the marbles are blue, $\frac{1}{4}$ are red, and the balance is green. How many are red and green?

Answer: _____

(4 mark)

38. The Thomas family is late to church. Advise the family on the best route to take to get to church.



Answer:

(4 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

39. The table below shows Marcus test marks.

Subjects	Marks out of 100
English Language	68
Mathematics	84
Science	
Social Studies	78
Spelling and Vocabulary	88
TOTAL	

A= 86-100

B = 71-85

C= 61-70

D= 51-60

E= 40-50

F= 0-39

a) Marcus mean mark was 82.6. Complete the table for Science and Total.

(2 mark)

b) How much more marks did Marcus need to score an A?

Answer: _____

(2 mark)

40. a) Susie bought a new stove for \$3570. If Susie got a 15% discount, how much was the store price of the stove?

Answer: _____

(2 marks)

b) The company that sold the stove to Susie made a profit of 20% on the sale. What was the cost price of the stove?

Answer: _____

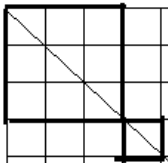
(2 marks)

END OF EXAM

SEA Practice Test 1 - Mathematics (75 minutes)

Answers:

1. 1569
2. $65\% = 65/100 = 13/20$
3. $38.6 \times 3 = 115.8$
4. $1.2\text{m} = 1.2 \times 100 = 120\text{cm}$
 $120/20 = 60$ strings (Answer)
5. Total slide = $6 \times \frac{1}{4} = 6/4 = 1 \frac{2}{4} = 1 \frac{1}{2}$
 $6 \times 3 = 18$
 $18 - 1 \frac{1}{2} = 16 \frac{1}{2}$ (Answer)
6. Eight hundred, thirty-two thousand and ninety-five
7. 8.74
8. 14683
9. $\sqrt{49+6} = 2^2+9$
10. Parallel lines
11. $4 \frac{1}{8} = \frac{33}{8}$
12. $2/5 \times N = 50$; $50 \div 2 = 25$;
 $5 \times 25 = 125$ (answer)
13. $60 \div \frac{1}{4} = 60 \times 4 = 240$ (answer)
14. $2.5\% = 2.5/100 = 1/40$ (Answer)
15. KF
16. 1- 25¢; 1- 10¢; 1-5¢
17. 4×5 boxes will make 40cm^2
18. If 1L needs $\frac{1}{4}$ tbsp.; 16L will
need $16 \times \frac{1}{4} = 4$ tbsp sugar
19. Difference = $9 - 6 = 3\text{cm}$

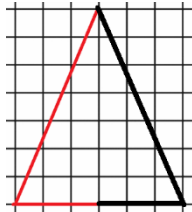


- 20.
21. $30\% \times 184 = 55.20$
Latisha-\$55.20; Lucy-\$64.40; Mark-\$64.40
22. Father = $7 \times 6 = 42$ years old
Mother = $42 - 4 = 38$ years old
23. Philip = $4 \times 2 = 8$
Mason = $7 \times 2 = 14$

- Corey = $6 \times 2 = 12$
Ted = $3 \times 2 = 6$
Total = $8 + 14 + 12 + 6 = 40$
24. $1/8 \times N = 30$; $N = 30 \times 8 = 240$
 $1/4 \times 240 = 60$ (Ans.)
25. $150 - 10 = 140$
Brenda = $4/10 \times 140 = 56$
Marie & Clara = $56/2 = 28$
Clara % = $28/150 = 18.7\%$
26. $5\text{m} = 5 \times 100 = 500\text{cm}$
Growth = $500/23 = 21.7$ weeks
27. $9 \frac{1}{2} - 4 \frac{3}{4} = 4 \frac{3}{4}$
28. Total = $20 + 14 + 16 + 8 = 58$
Friday = $77 - 58 = \$19$ (Ans.)
29. VAT = $350 \times 12.5/100 = \$43.75$
price = $350 + 43.75 = \$393.75$ (ans.)
30. $90/3 = 30$ heaps of 3
40% of 30 heaps = $40/100 \times 30 = 12$
Sold: $12 \times \$8.5 = \102 (Ans.)
31. Amount paid for: $100 - 12 = 88\%$
 $7800 \times 88/100 = \$6864$
32. Half barrel = $60/2 = 30$ litres
Amount of buckets = $30/6 = 5$ buckets
of water to full half the barrel
33. $5\text{m} = 5 \times 100 = 500\text{cm}$
Area of room = $500 \times 500 = 250000\text{cm}^2$
Area of tile = $20 \times 20 = 400\text{cm}^2$
Amount of tiles
required = $250000/400 = 625$ (ans.)
34. a) cylinder;



SEA Practice Test 1 - Mathematics (75 minutes)



35. A)  b) 1 line of symmetry c) any of the following:
- 2 equal sides; 3 edges; 3 vertices;
sum of angles is 180° ; 2 equal angles.
36. Draw 6 o'clock . b) 9 hrs from 7:30 to 4:30; earning = $9 \times 23 = \$207$ (Ans.)
37. Blue marbles - $240 \times \frac{1}{3} = 80$; red marbles = $240 \times \frac{1}{4} = 60$; green marbles = $240 - 140 = 100$;
Ans.- red and green marbles = $60 + 100 = 160$ marbles
38. The family should take the shortest route to church. Compare the route distances: 2500, 2910 and 3000 m. Thus, route #1 is the shortest route for the family to take to get to church on time.