

## SEA Practice Test 6

# Mathematics

Based on the Revised SEA Framework 2021-2023

School:

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Student's Name:

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Date:

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### **INSTRUCTIONS**

Read the following directions carefully. This test is divided into three sections.

SECTION 1 has 20 questions (nos. 1-20) and a total of 20 marks.

SECTION 2 has 15 questions (nos. 21-36) and a total of 30 marks.

SECTION 3 has 5 questions (nos. 37-40) and a total of 16 marks.

Make sure you read the instructions before you start on any section.

**DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.**

SEA Practice Test 6 - Mathematics (75 minutes)

**Section 1**

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1. Write the numeral for forty-nine thousand and twelve.

Answer: \_\_\_\_\_ (1 mk)

2. The number 941 is increased by 600. What is the new number?

Answer: \_\_\_\_\_ (1 mk)

3. Divide 495 by 15.

Answer: \_\_\_\_\_ (1 mk)

4.  $\frac{2}{3}$  of a number is 8. What is the number?

Answer: \_\_\_\_\_

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5. Circle the number that is not a square number.

**25, 36, 45, 49, 64**

Answer: \_\_\_\_\_ (1 mk)

6. Calculate:

$$\frac{4}{6} - \frac{1}{3}$$

Answer: \_\_\_\_\_ (1 mk)

7. Calculate

$$\frac{4}{5} \times 75$$

Answer: \_\_\_\_\_ (1 mk)

8. Convert  $\frac{63}{12}$  to a mixed number.

Answer: \_\_\_\_\_ (1 mk)

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9. The maximum score of a spelling test is 80. Joyce scored 75%.  
What was Joyce's score on the test?

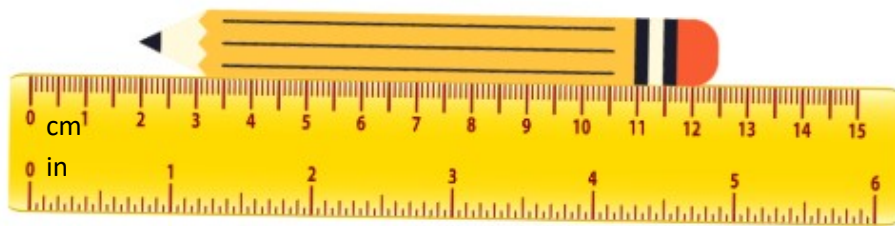
Answer: \_\_\_\_\_ (1 mk)

10. Lex bought two of the bottled water shown below. How  
much change did he receive from \$20.00? (1 mk)



Answer: \_\_\_\_\_

11. What is the length of the pencil in centimetres?



Answer: \_\_\_\_\_ (1 mk)

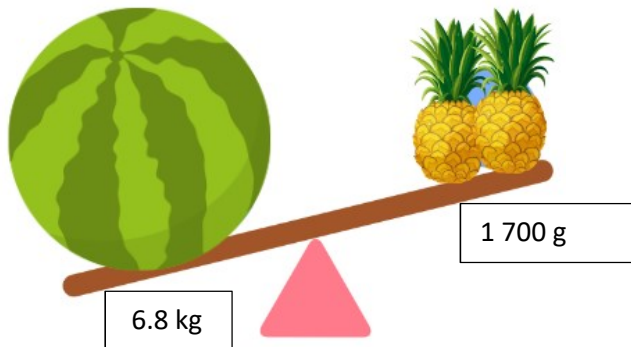
SEA Practice Test 6 - Mathematics (75 minutes)

12. Write the time shown on the clock?



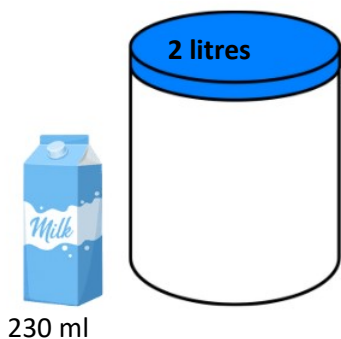
Answer: \_\_\_\_\_ (1 mk)

13. How many more pineapples of the same mass will balance the scale?



Answer: \_\_\_\_\_ (1 mk)

14. An empty container and a full carton of milk are shown below. How many full cartons of milk will fill the container? (1 mk)



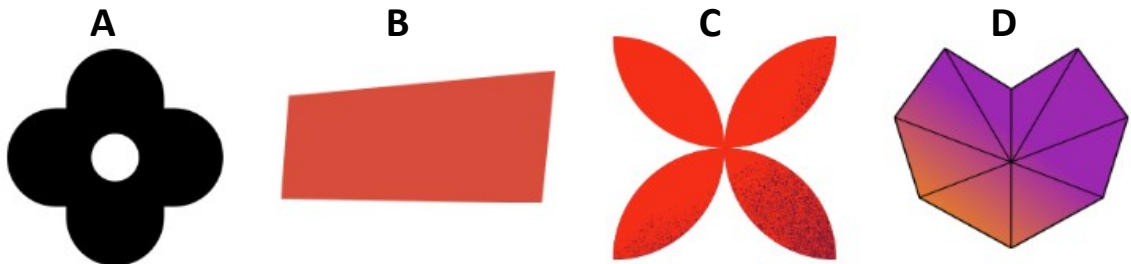
Answer: \_\_\_\_\_

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15. The cross-section of a prism is a square. What is the name of the prism?

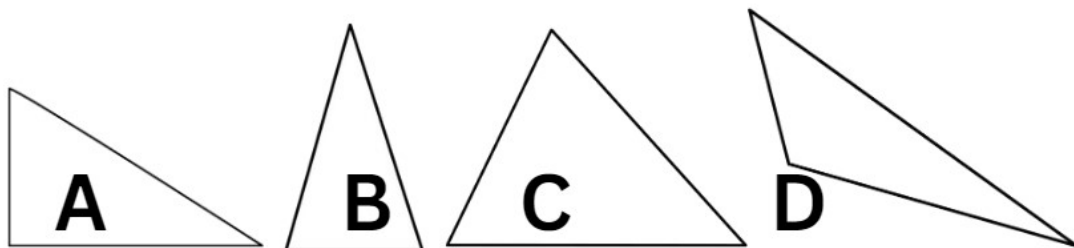
Answer: \_\_\_\_\_ (1 mk)

16. Which of the shapes shown below is NOT symmetrical?



Answer: \_\_\_\_\_ (1 mk)

17. Which triangle below has an angle that is greater than a right angle?



Answer: \_\_\_\_\_ (1 mk)

18. The tally chart below shows the amount of students late during a week in a school. Which day represents the mode?

Day	Tally
Monday	+++ +++
Tuesday	
Wednesday	+++
Thursday	+++ +++ +++
Friday	+++ +++

Answer: \_\_\_\_\_ (1 mk)

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19. The table below shows a student's marks for the end of term test. What was the student's mean mark? (1 mk)

Subject	Marks
Mathematics	73
English Language	84
Science	75
Social Studies	81

Answer: \_\_\_\_\_

20. The graph below shows the number of the type of citrus trees in an orchid. If there are 70 trees in the orchid, how many lemon trees are in the orchid? (1 mk)

Citrus tree	Amount
Orange trees	25
Grapefruit trees	15
Tangerine trees	6
Lemon trees	
Lime trees	7
Pomelo trees	9

Answer: \_\_\_\_\_

**Section One total marks – 20 marks**

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SEA Practice Test 6 - Mathematics (75 minutes)

**SECTION TWO**

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21. Write the following numbers in descending order. (2 mks)

**54   68   27   45   29**

Answer: \_\_\_\_\_

22. Write the correct number in each shape below to complete the number sentences. (2mks)

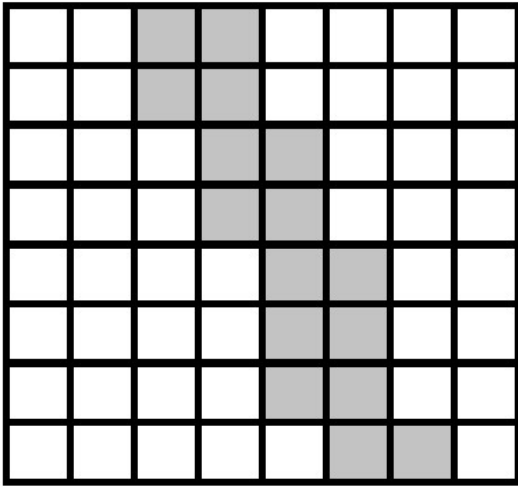
$$\square + 4^2 = 21$$

$$84 \div \bigcirc = 12$$



SEA Practice Test 6 - Mathematics (75 minutes)

23. The shaded fraction of the square represents 32 students in a school. What is the total number of students in the school? (2 mks)



Answer: \_\_\_\_\_

24. James is 12 older than his younger brother Jim. Seven years ago, Jim was 5 years old. What is James age now?

Answer: \_\_\_\_\_ (2 mks)

SEA Practice Test 6 - Mathematics (75 minutes)

25. Mark bought 60 m of wire to make some baskets. He used  $\frac{12}{15}$  of the wire to make basket frames. He then cut the remaining wire into equal lengths to make basket handles. Each basket handle was made with  $\frac{3}{4}$  metres of wire. How many basket handles did he make? (2 mks)

Answer: \_\_\_\_\_

26. The costs of bats and balls are shown below. Calculate the cost of 1 bat.



Answer: \_\_\_\_\_ (2 mks)

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27. A vendor received a total of \$796 from the sale of ice cream. He sold two sizes of ice cream. He sold the 12-ounce container of ice cream for \$10 and the 6-ounce for \$8. He sold five 6-ounce ice cream containers more than the 12-ounce ice cream. Calculate the total number of 12-ounce ice cream sold.



12ounce



6 ounce

Answer: \_\_\_\_\_ (2 mks)

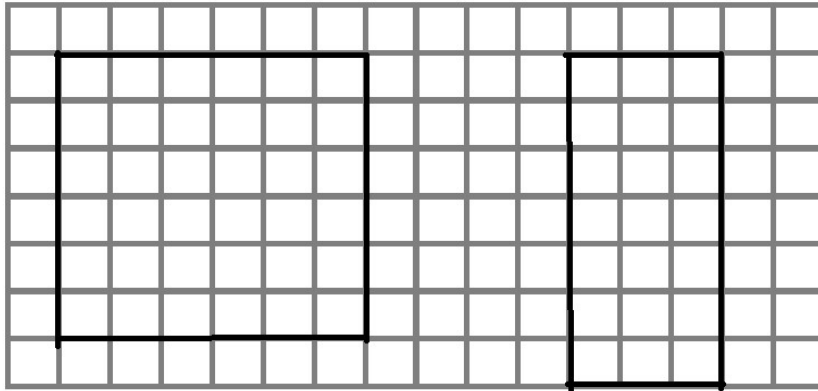
28. Jamie's weekly allowance was \$25. She received  $\frac{1}{4}$  of her weekly allowance for each of the three additional chores she completed. Calculate her total allowance for the week.

Additional chores done for the week:	
Wash wares	
Pack away laundry	
Clean the swimming pool	

Answer: \_\_\_\_\_ (2 mks)

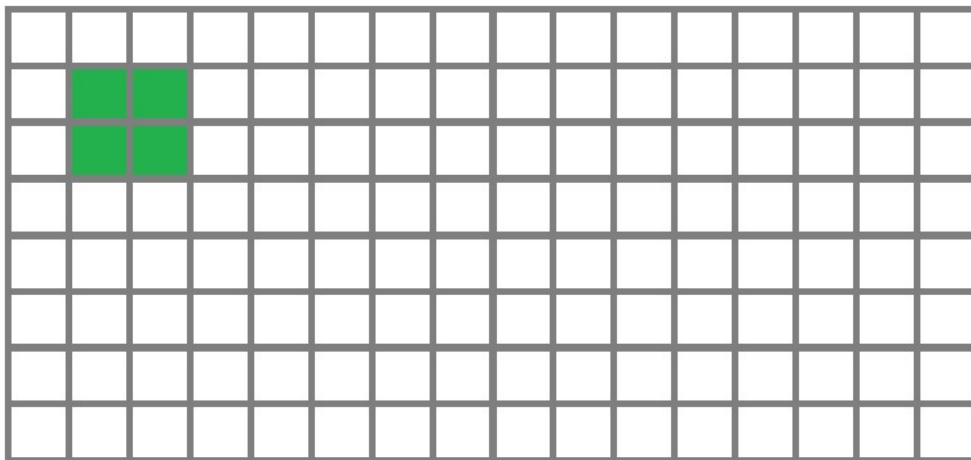
SEA Practice Test 6 - Mathematics (75 minutes)

29. A square and a rectangle are drawn on the 1 cm grid below. What is the difference in their perimeter?



Answer: \_\_\_\_\_ (2 mks)

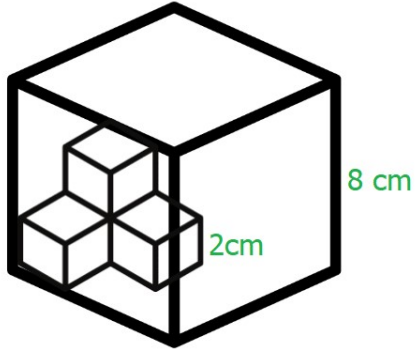
30. The shaded rectangle on the 1m grid below represents a flower bed. The flower bed is  $\frac{1}{9}$  of the area of a square park. On the grid below, draw the square park and shade its area.



Answer: \_\_\_\_\_ (2 mks)

SEA Practice Test 6 - Mathematics (75 minutes)

31. Small identical cubes are placed inside a larger cube as shown below. How many more of these cubes are needed to fill the cuboid completely?



Answer: \_\_\_\_\_ (2 mks)

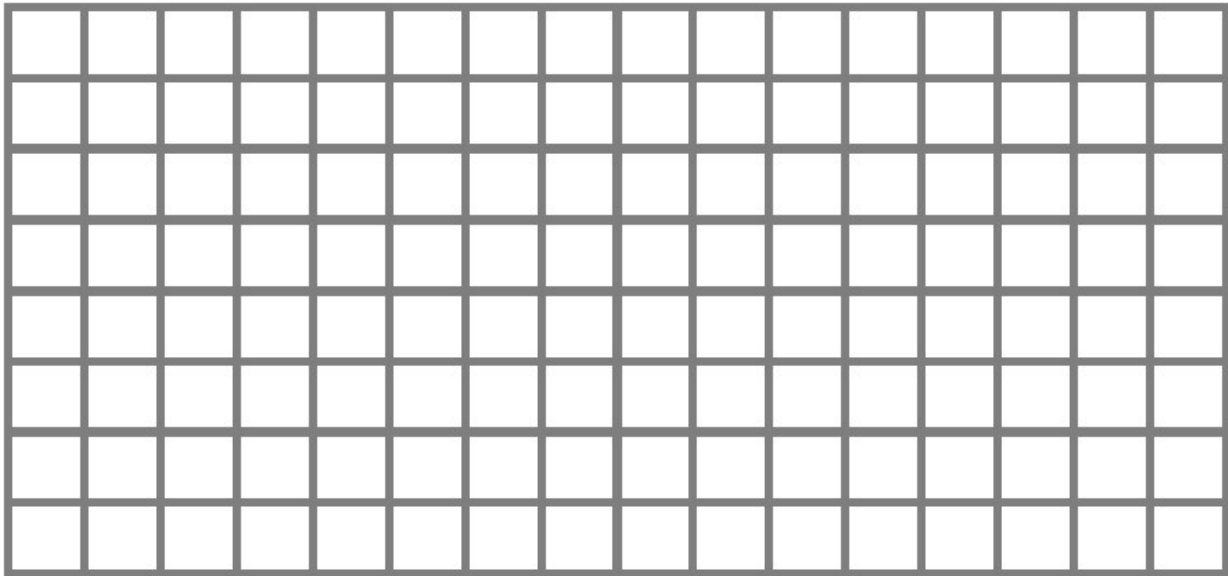
32. The time on a clock is correct at 9 am. If the clock loses 5 minutes every hour. What time would the clock show when the correct time is 7 P.M?



Answer: \_\_\_\_\_ (2 mks)

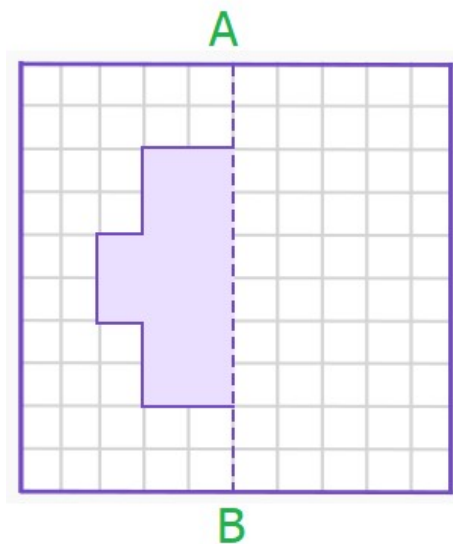
SEA Practice Test 6 - Mathematics (75 minutes)

33. On the grid below, draw a quadrilateral ABCD with at least one angle that is 90 degrees. Name the quadrilateral drawn.



Answer: \_\_\_\_\_

34. An incomplete symmetrical shape is shown on the grid below. Using AB as the line of symmetry, complete the shape.



SEA Practice Test 6 - Mathematics (75 minutes)

35. The mean of four numbers was 80. When one number was removed the mean remained 80. Explain how this was possible. (2 mks)

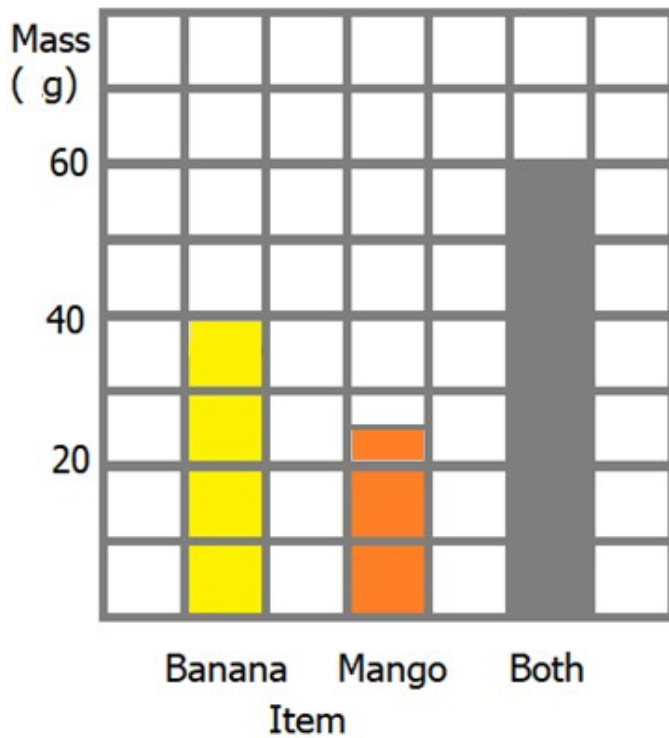
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36. A basket with mango was weighted the same basket was weighted with bananas. Finally, the basket was weighted with the mango and the banana. The graph below shows the mass of the items. What is the mass of the basket?



Answer: \_\_\_\_\_

(2 mks)

SEA Practice Test 6 - Mathematics (75 minutes)

**SECTION THREE**

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37. Kiona had 120 chocolate sweets. She kept  $\frac{1}{5}$  for herself and gave  $\frac{1}{4}$  to her best friend. She shared the remaining chocolate sweets between her two cousins, Beth and Aretha. Beth received 4 more chocolate sweets than Aretha. How many chocolate sweets did Aretha receive?

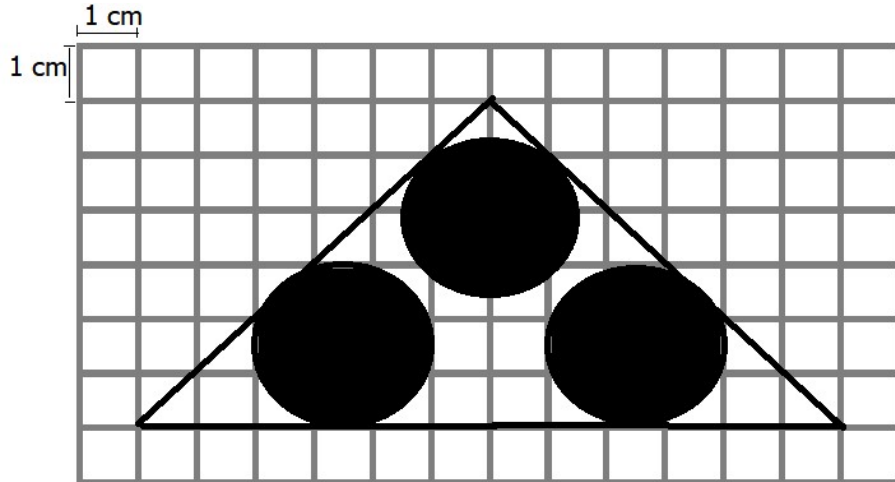
Answer: \_\_\_\_\_

(4 mks)



SEA Practice Test 6 - Mathematics (75 minutes)

38. An isosceles triangle is drawn on the 1 cm grid below. Three identical circles partially covered the triangle. What area of the triangle is not covered by the circles?



Answer: \_\_\_\_\_

(4 mks)

SEA Practice Test 6 - Mathematics (75 minutes)

39. The incomplete pattern below shows the position of its elements.



a. Explain the pattern rule. (1 mrk)

Answer:

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b. Draw the 19<sup>th</sup> element. (1 mrk)

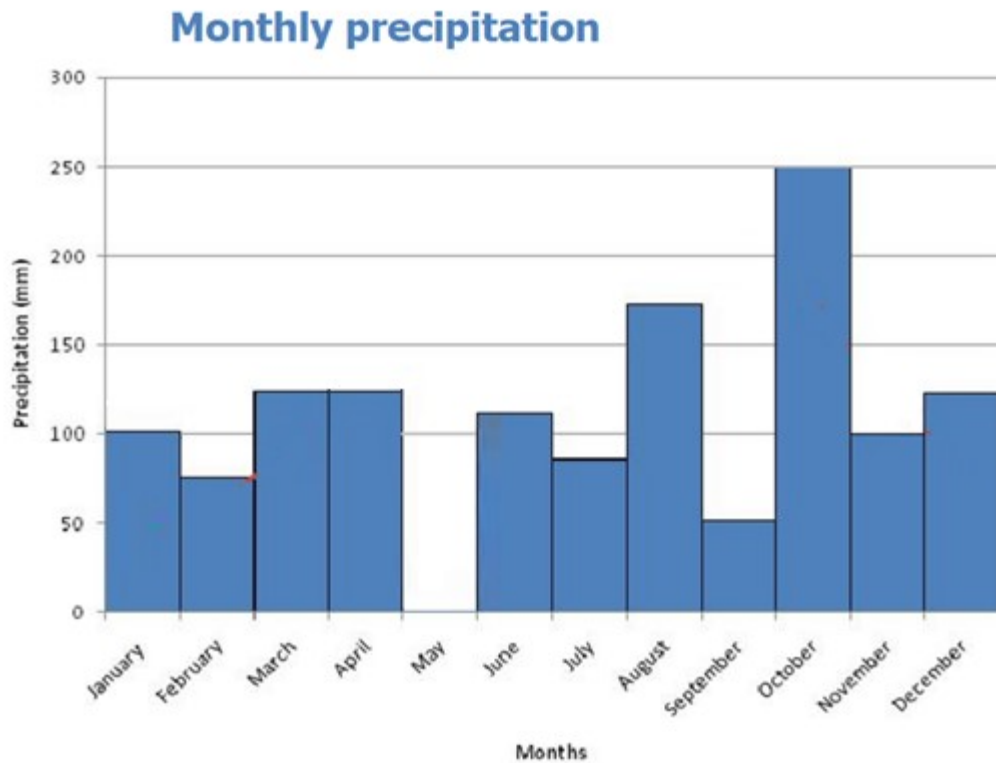
Answer: \_\_\_\_\_

c. State the position at which the pattern begins repeating for the third time.

Answer: \_\_\_\_\_ (2 mrk)

## SEA Practice Test 6 - Mathematics (75 minutes)

40. The bar graph below shows the monthly precipitation for one year. (4 mks)



- a. In the month of May the precipitation was  $\frac{2}{5}$  of the highest recorded month. What is the precipitation for the month of May? Show the amount on the graph above.

Answer: \_\_\_\_\_

- b. What is the difference between the highest and lowest precipitation for the year?

Answer: \_\_\_\_\_

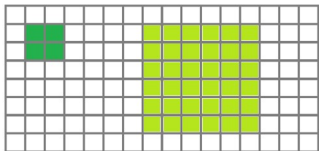
- c. What is the average precipitation for the first five months of the year?

Answer: \_\_\_\_\_

# SEA Practice Test 6 - Mathematics (75 minutes)

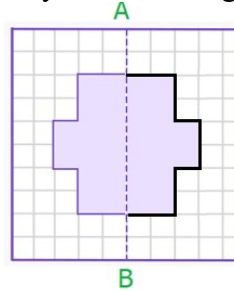
## Answers:

1. 49 012
2. 1 541
3. 33
4.  $5 \frac{1}{3}$
5. 45
6.  $\frac{1}{3}$
7. 60
8.  $5\frac{1}{4}$
9. 60
10. \$7
11. 11.5 cm
12. 2:20 or 20 minutes past 2
13. 6 more pineapples
14. 8 full cartons of milk
15. cube
16. shape B
17. Shape D
18. Thursday
19. 78.25
20. 8
21. 68, 54, 45, 29, 27
22. 5, 7
23. 128
24. 24 years old
25. 16 basket handles
26. \$150 for a bat
27. 42 12-ounce ice cream contains
28. \$43.75
29. 4 cm



30.

31. 61 cubes
32. 6:10 P.M.
33. Any four sided figure.



- 34.
35. This is possible when one number is removed and the total of the remaining three numbers is 240. Or the number removed is exactly 80.
36. 5 g
37. Aretha gets 31 chocolate sweets
38.  $14.79\text{cm}^2$
39. a. This is a repeating pattern from the first element to the 7th pattern.



- B.                      c. 15th
40. a. 100 b. 200 c. 105