

SEA Practice Test 2

MATHEMATICS

Based on the Revised SEA Framework 2021-2023

Time: 75 minutes

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 column provided. Marks will be given for correct steps taken.

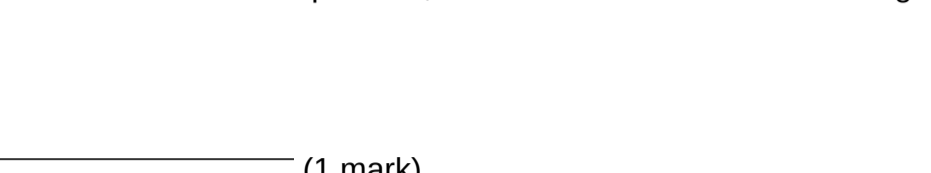
DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.

SECTION 1

1. If $\frac{1}{3}$ of a number equals 75, what is the number?
 _____ (1 mark)

2. $1824 \div 12$
 _____ (1 mark)

3. A line of pupils is 30m long. The pupils stand 2 metres apart. How many pupils form the line?
 _____ (1 mark)

4. What is the total value of the money below?

 _____ (1 mark)

5. A pack of milk has 600ml. 40ml is used for a pie. How many pies does he have milk for?
 _____ (1 mark)

6. The sum of the values in the table is equal to 1, calculate the value of the missing fraction.

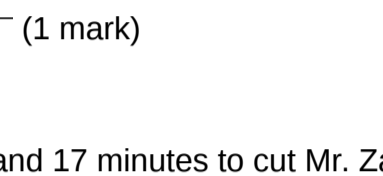
$\frac{4}{7}$?
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 _____ (1 mark)

7. Delia has a total of \$75. If she has three dollar notes, suggest the values of these bills.
 _____ (1 mark)

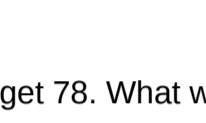
8. Round off the sum of the decimals shown below to the nearest whole number.
 $52.3 + 4.94$
 _____ (1 mark)

9. A watch was priced at \$120. If a 15% discount is given off the price of the watch, what is the reduced price of the watch?
 _____ (1 mark)

10. In the triangle below, is the angle A larger or smaller than a quarter of a turn?

 _____ (1 mark)

11. Name the solid that does not have an equal cross section throughout.
 _____ (1 mark)

12. It takes Primo an average of 1 hour and 17 minutes to cut Mr. Zane's lawn. If he completes the job 30 minutes earlier, how long did it take him to cut the lawn?
 _____ (1 mark)

13. How many pairs of lines in the shape below are parallel?

 _____ (1 mark)

14. Mina squared a number then added 14 to get 78. What was the number?
 _____ (1 mark)

15. The bar chart below is incomplete. It shows the number of candles made each month. If 230 candles are made altogether, draw in the missing bar to show how many candles were made in February?

 _____ (1 mark)

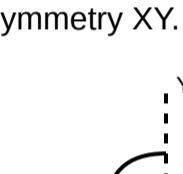
16. Ronny purchased 5 cakes for \$630. How much do 2 cakes cost?
 _____ (1 mark)

17. How many surfaces does this solid have?

 _____ (1 mark)

18. Calculate the mean of the numbers shown below.
 154, 62, 80, 56
 _____ (1 mark)

19. Complete the sequence below.
 124, 109, ?, 94
 _____ (1 mark)

20. Complete the shape along the line of symmetry XY.

 _____ (1 mark)

SECTION 2

21. Jane purchased a fridge which cost \$7500 on hire purchase as shown below. How much more is the cost of the fridge on hire purchase?

Hire Purchase
20% down payment
12 monthly instalments of \$650.00 each

 _____ (3 marks)

22. A length of cloth was 18 metres long. If 0.4 of the cloth was cut off, calculate the length of cloth that remains?
 _____ metres (2 marks)

23. Jose and Julia make baskets each day. Jose makes 2 baskets more than Julia who makes 6 baskets every day. If they both make baskets for five days each week, how many baskets would they make altogether in a month?
 _____ (3 marks)

24. Mary purchased a total of 16kg 50 grams of tomatoes and onions in the supermarket. If $5\frac{1}{4}$ kilograms of tomatoes were purchased, express the weight of onions Mary purchased in kilograms.
 _____ kg (3 marks)

25. Winston purchased the items shown below and spent \$325 in total. He purchased 6 boxes of bulbs and a combination of the other items. How many screwdrivers did he purchase?

Screwdriver	Box of bulbs	Hammer
\$35.00	\$30.00	\$75.00

 _____ (2 marks)

26. A farmer picked mangoes and kept 10% of the mangoes. If the farmer sold $\frac{3}{5}$ of the remainder, what percent of the mangoes did he sell?
 _____ (2 marks)

27. Perpendicular lines form what two fractions of turns?
 _____ (2 marks)

28. Jamal began his homework at 5:25 p.m. If Jamal spent $\frac{3}{4}$ of an hour on maths, $\frac{1}{2}$ an hour on science and $\frac{1}{2}$ an hour on Language Arts, what time did he finish his homework?
 _____ (3 marks)

29. Complete the table below.

Percent	Fraction	Decimal
37.5%		0.375
	$\frac{2}{5}$	0.4

(2 marks)

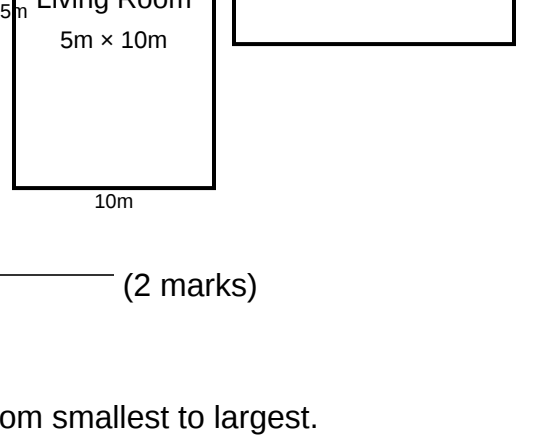
30. The table below shows the sales of fruits in a stall for five days with an average of \$575. Calculate the difference between the highest sales and lowest sales.

Monday	Tuesday	Wednesday	Thursday	Friday
\$560	?	\$640	\$575	\$620

 _____ (3 marks)

31. Flo spends 20% of his salary on rent and $\frac{1}{4}$ on food. If Flo spends \$2700 on rent, calculate the amount of money he spends on food.
 _____ (3 marks)

32. A square floor with a perimeter of 8 metres was tiled using tiles measuring 20cm by 20 cm. How many tiles were used?
 _____ (3 marks)

33. The floor plan below is that of a living room and a dining room. What is the area of the two rooms?

 _____ (2 marks)

34. Arrange the fractions below from smallest to largest.
 45% , $\frac{1}{5}$, 0.602
 _____ (4 marks)

35. Vivian wants to buy a dress costing \$490. She plans to save 50 dollars each week. How many weeks does she need to save to buy the dress?
 _____ weeks (2 marks)

36. Which rental cost for a pressure washer is cheaper? Advise Diane who wants to rent a pressure washer for one week.

AZ Rental	ZAC Rental
Pressure washer rental \$75.00 per day	Pressure washer rental \$456.00 (flat rate)

 _____ (3 marks)

SECTION 3

37. Four pizzas were bought for a gathering. A pizza was cut into slices of 8. How many slices would 16 people get if all the pizzas were shared equally?
 _____ (2 marks)

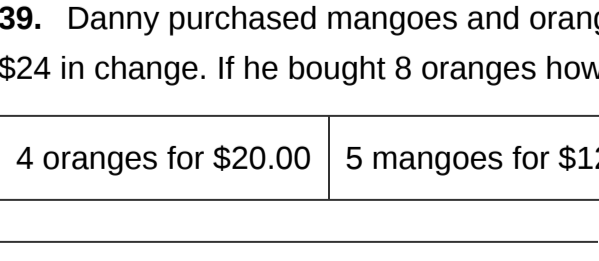
38. Answer the questions below based on quadrilaterals.

a) What type of quadrilateral has the properties shown below?

Number of pairs of parallel sides	Number of right angles	Number of lines of symmetry
1	0	1

_____ (1 mark)

b) Draw the quadrilateral which is described above.



(1 mark)

c) The quadrilateral described and drawn above can be divided into different polygons. Draw lines to show the different polygons and describe the type and number of polygons.
 _____ (2 marks)

39. Danny purchased mangoes and oranges in the market. He paid with a hundred dollar bill and received \$24 in change. If he bought 8 oranges how many mangoes did he buy?

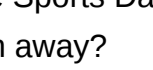





4 oranges for \$20.00	5 mangoes for \$12.00
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 _____ (4 marks)

40. Two children had red, green and purple marbles in their collection. When they counted the marbles they found that for every 4 green marbles they had 8 red marbles and 5 more purple marbles to their red marbles. The children had 40 purple marbles. Recently they were given 40 blue marbles to add to their collection, what percent of all the marbles were green?
 _____ (4 marks)

41. The pictograph below represents the amount of students that came out to Sports Day from the various classes in a school.

Sports Day Attendance by Class

- Standard 1:  (6 students = 30)
- Standard 2:  (4 students = 20)
- Standard 3:  (8 students = 40)
- Standard 4:  (6 students = 30)
- Standard 5:  (8 students = 40)
- Standard 6:  (10 students = 50)

Key: Each  = 5 students

a) Which classes had the same amount of students at the Sports Day Event?
 _____ (1 mark)

b) Every 5th student at the Sports Day received a free lunch box. If a lunch box cost \$25, what was the total value of lunch boxes given away?
 _____ (1 mark)