

SEA Practice Test 3

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. Calculate $124 \div 4$

Answer: _____ (1 mark)

2. Kwame had a total of \$75 in his wallet. There were both five-dollar and ten-dollar notes. If there were 5 five-dollar notes, how many ten-dollar notes were in Kevin's wallet?

Answer: _____ ten-dollar notes (1 mark)

3. Brian bought a length of pipe, 32 metres long. If 7.64 metres of pip was used, what length remained?

Answer: _____ m (1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

4. Complete the statement below.

$\frac{5}{6}$ and $\frac{30}{36}$ are _____ fractions.

Answer: _____

(1 mark)

5. Calculate 25% of 4500

Answer: _____

(1 mark)

6. Express the expanded notation below as a decimal.

$$(2 \times 100) + (5 \times 1) + (7 \times \frac{1}{10}) + (4 \times \frac{1}{100})$$

Answer: _____

(1 mark)

7. A number was doubled and then multiplied by 5. If the final answer is 720, calculate the value of the original number.

Answer: _____

(1 mark)

8. A square has a perimeter of 36 centimetres. Calculate the length of one side of the square.

Answer: _____

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

9. Victor wants to borrow \$3200 to help him cover the cost of a plumbing course. His bank offered him a simple interest loan at a rate of 2% with repayment in 12 months. Another bank offered him a loan that had down payment of \$1400 and 11 monthly repayment of \$200. Which option cost more?

Answer: _____

(2 mark)

10. Round 4.82 to the nearest whole number.

Answer: _____

(1 mark)

11. Write the missing fraction to complete the sequence below.

$$\frac{1}{2} \quad \frac{2}{5} \quad \frac{\square}{\square} \quad \frac{4}{11}$$

Answer: _____

(1 mark)

12. Xavier had 18 toy vehicles. 5 were trucks, 6 were cars, 3 were motorbikes, and the rest were airplanes. What percentage of his toy were airplanes?

Answer: _____

(2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

13. Twenty chocolate bars were shared equally among 6 children. How much will each child get?

Answer: _____

(1 mark)

-
14. 4.09 kg = _____g

Answer: _____

(1 mark)

-
15. Alana is shelling pigeon peas. Every 2 minutes she shells 10 peas from its shells. She took half an hour to shell all the peas. How many peas did Alana shell from its shells?

Answer: _____

(2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

16. Which if the following is a prism.



Answer: _____

(1 mark)

17. Henry Road is 6.1 km and Castillo Road is 5432 m long. By how much is one road longer than the other?

Answer: _____

(1 mark)

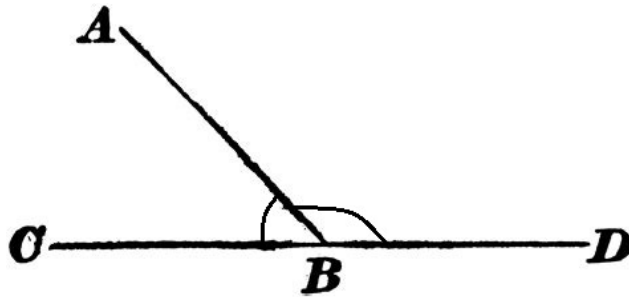
18. Convert $\frac{3}{5}$ as a percent.

Answer: _____

(1 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

19. Name the larger angle ABD shown below.



Answer: _____ (1 mark)

20. The table below shows the points scored by Danny in six games. What is the mean score? (1 mark)

Games	Game 1	Game 2	Game 3	Game 4	Game 5	Game 6
Point scored	15	18	12	6	9	15

Answer: _____

SECTION 2

21. The chart shows the number of books read by four children.

Children	Number of books read
Lou Lou	
Brent	
Darius	
Corey	

How many more books did Lou Lou read than Darius?

Answer: _____ (2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

22. Fred has 56 mangoes in a box. 1 in every 6 mango is rotten. How many rotten mangoes are there?

Answer: _____

(2 marks)

23. The block graph shows the points scored by five children in a game.

[illegible]

How many more points did Courtney score than Darius?

Answer: _____

(2 mark)

24. Jose triples a certain number then adds 25. The result is 40. What is the number?

Answer: _____

(2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

25. Winston walked for 30 minutes every day. Calculate the total hours he walked for a week?

Answer: _____

(2 mark)

26. Two numbers have a product of 13. One of the numbers is $3\frac{1}{4}$. What is the other number?

Answer: _____

(2 mark)

27. The scale below is balanced at $\frac{1}{4}$ kg. What is the weight in grams of one apple if all the apples have equal weight?



Answer: _____

(2 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

28. A box of cereal and two small boxes of milk cost \$34.15. The cost of the cereal is \$21.25. What is the cost of 2 boxes of cereal and 4 small box of milk?

Answer: _____

(3 mark)

-
29. Julia bought 4 goodies at \$1.00 each and a drink for \$3.50. What was her change if she paid with a \$20 note?

Answer: _____

(2 marks)

-
30. Dahlia has \$1400 in her savings after she spent 30% of it on a new dress. How do you determine how much Dahlia spent on the dress?

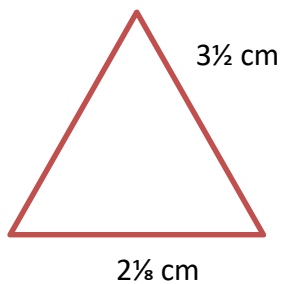
(3 marks)

SEA Practice Test 1 - Mathematics (75 minutes)

31. Flo has 6 boxes of pizza to serve guest at a party. There are 25 guests. Can each guest get 2 pizza? Explain.

(3 mark)

32. Calculate the perimeter of the triangle below.



Answer: _____

(3 mark)

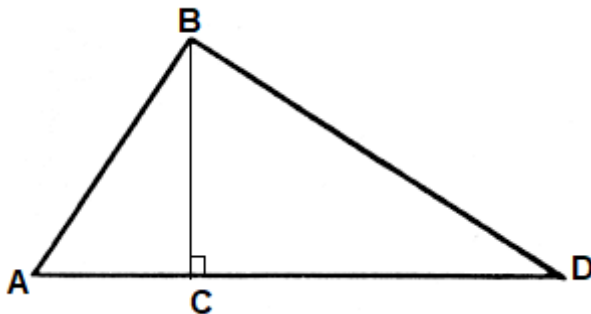
SEA Practice Test 1 - Mathematics (75 minutes)

33. Antoine bought 2 sacks of flour, one weighing 33 kg and the other 11 kg. The flour bought is to be equally shared into smaller bags, weighing 900 grams each. How many small bags of flour could Antoine get?

Answer: _____

(2 mark)

34. a) Name the triangle below.



Answer: _____

(1 mark)

- b) Which lines in the triangle shown above is perpendicular?

Answer: _____

(1 mark)

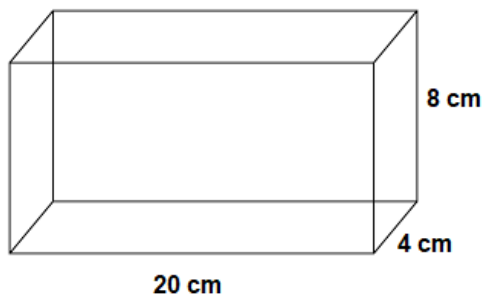
SEA Practice Test 1 - Mathematics (75 minutes)

35. Complete the table below if an equal number of mangoes and apples were bought.

FRUIT	NUMBER BOUGHT	PERCENTAGE OF FRUITS BOUGHT
Mangoes	15	_____ %
Bananas	_____	50%
Apples	10	20%
Total	_____	100%

(3 mark)

36. A box in the shape of a cuboid is being filled with cubes with side 4 cm. How many cubes are there in the box if it is half filled?



Answer: _____

(3 marks)

SEA Practice Test 1 - Mathematics (75 minutes)

SECTION 3

37. Participants in a marathon would walk 5.6 km. Every 45 minutes, Mary walked 700 meters. How long did it take Mary to complete the race? Give your answer in hours?

Answer: _____ (4 mark)

38. Phil has 200 mangoes to sell. 60% of the mangoes were ripe, $\frac{7}{25}$ were green and the remainder had to be thrown away. If he sold the ripe and green mangoes in heaps of 4 for \$8.00, how much did he earn selling the mangoes?

Answer: _____ (4 mark)

39. Students going to the stadium. There are twice as many boys as girls. A school will need 4 school buses. A school bus can carry 66 students.

a) How many students are going to the stadium?

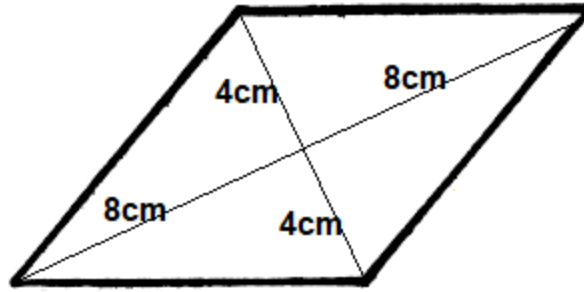
Answer: _____ (1 mark)

b) How many boys and girls will be on the buses?

Answer: _____ (3 mark)

SEA Practice Test 1 - Mathematics (75 minutes)

40. a) Identify the name of the shapes below and state one property for each.



Answer: _____

(1 mark)

b) Name one property of the shape above.

(1 mark)

c) What is the area of the above shape?

Answer: _____

(2 mark)

END OF EXAM

SEA Practice Test 1 - Mathematics (75 minutes)

Answers:

1. $124 \div 4 = 31$ (Answer)
2. $5 \times \$5 = \25
 $75 - 25 = \$50$ (in ten-dollar notes)
 $50 / 10 = 5$ ten-dollar notes (Answer)
3. $32.00 - 7.64 = 24.36$ m
4. $\frac{5}{6} = \frac{30}{36}$
 $\frac{30}{36} + \frac{30}{36} = \frac{60}{36} = 1\frac{2}{3}$ (answer)
5. $25 / 100 \times 4500 = 1125$
6. 205.74
7. $\$720 \div 5 = \144
 $N = 144 / 2 = 72$ (Answer)
8. $36 / 4 = 9$
9. Payment to bank 1 =
 $(3200 \times 2 \times 12) \div 100 = 768$
 $= 3200 = 768 = \$3968$
Payment to bank 2 =
 $= 1400 + (11 \times 200) = 3600$
Bank 1 has a higher payment of
\$3968 (Answer)
10. $4.82 = 5$ (Answer)
11. $3/8$
12. 18 toys = $5 + 6 + 3 + A$
 $A = 4$ airplanes
Percent = $4 / 18 = 22.2\%$ (Answer)
13. $30 \div 6 = 3\frac{1}{2}$ (Answer)
14. 4.09 kg = 4090 g
15. 2 min to shell 10 peas
 $30 \text{ min} = 15 \times 10 = 150$ peas (Ans.)
16. Solid #3 (Answer)
17. $6.100 - 5.432 = 0.668$ (Ans.)
18. $0.6 = \frac{3}{5}$ (Answer)
19. Angle ABO is obtuse (Ans.)
20. Mean = $(15 + 18 + 12 + 6 + 9) \div 6 = 12.5$
21. $29 - 13 = 16$ (Answer)
22. $\frac{1}{6} \times 56 = 9.33$ (Answer)
23. Courtney = $6 \times 5 = 30$
Darius = $6 \times 1 = 6$
Total = $30 - 6 = 24$ (Ans.)
24. $(N \times 3) = 40 - 25 = 15$
 $N = 15 \div 3 = 5$ (Ans.)
25. $30 \times 7 = 245$ min
 $245 \div 60 = 3\frac{1}{2}$ hrs
26. $N \times 3\frac{1}{4} = 13$
 $N = 13 \div 3\frac{1}{4}$
 $N = 13 \div \frac{13}{4}$
 $N = 13 \times \frac{4}{13} = 4$ (Ans.)
27. $\frac{1}{4}$ kg = 250g
An apple = $250 / 4 = 62.5$ g
28. 2 box cereal = $21.25 \times 2 = 42.50$
4 boxes milk = $12.9 \times 2 = 25.80$
Total = $42.50 + 25.80 = \$68.30$ (Ans.)
29. Total spent = $4.00 + 3.50 = 7.50$
Change = $20.00 - 7.50 = \$12.50$ (Ans.)
30. 70% of saving = \$1400
 $30\% = (1400 / 70) \times 30 = \600 (Ans.)
If Dahlia has 70% of her saving which is \$1400. This means she spent 30% of her saving on the dress. Using this ratio, you can calculate the amount spent on the dress. She therefore spent \$600 on the new dress.
31. Slices = $6 \times 8 = 48$
Shared for each 25 guest =
 $48 \div 25 = 1.92$
Some guest will not get 2 pizzas.
1.92 is less than 2.
32. $3\frac{1}{2} \times \frac{4}{4} = 3\frac{4}{8}$; $3\frac{1}{2} \times \frac{4}{4} = 3\frac{4}{8}$
Perimeter = $3\frac{4}{8} + 2\frac{1}{8} + 3\frac{4}{8} = 9\frac{1}{8}$ cm
33. Total flour = $33 + 11 = 44$ kg
 $44 \text{ kg} = 44000 \text{ g}$
Amount of bags = $44000 / 900 = 48.88$
bags
Answer = 48 bags

SEA Practice Test 1 - Mathematics (75 minutes)

34. a) scalene triangle

b) BC and AD lines intersect and form a right angle

35. Mangoes= $100-50-20=30\%$

Bananas = $10/20 \times 50=25$

Total = $15+25+10=50$ fruits

36. Capacity of cuboid= $20 \times 8 \times 4=640\text{cm}^3$

Cube- $4 \times 4 \times 4=64\text{cm}^3$

Amount to fill the cuboid=

$640/64=5$ cubes (Answer)

37. $5\text{km}=5000\text{m}$

Participants walk 700m every 45

min= $5000/700=8$ sets

$8 \times 45=360$ min

$360/60=6$ hours(Answer)

38. $7/25=28\%$

$60+28=88$ $100-88=12\%$ spoilt

Spoilt= $\frac{12}{100} \times 200 = 24$

Sold= $200-24=176$ mangoes

Sold in batches of 4= $176/4=44$ batches

Total selling price= $44 \times 8=\$352$ (Ans.)

39. Amount going to stadium=

$66 \times 4=264$ students

$2N+N=264/3=88$

Girls= 88

Boys= $88 \times 2=176$

Check: $88+176=264$ students.

Answer= 88 girls and 176 boys

40. a) rhombus

b) Any one of the following answers:

-four-sided quadrilateral

-opposite sides are parallel

-all the sides are of equal length

-diagonal bisect each other at right angle.

c) area of one triangle= $8 \times 4/2=16\text{cm}^2$;

area: 4 triangles= $4 \times 16=64\text{cm}^2$ (Ans.)