

SEA Practice Test 9

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

DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.

SEA Practice Test 8 - Mathematics (75 minutes)

Section 1

1. Write in words: \$9 307.45

Answer: _____ (1 mark)

2. What is the value of the digit **5** in the number below?

548 013

Answer: _____ (1 mark)

3. Identify the number X on the pattern below.

2 **5** **X** **23** **47**

Answer: _____ (1 mark)

4. Round the number below to the nearest thousand

8419

Answer: _____ (1 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

5. Calculate: $8^2 + 10^2 - \sqrt{16}$

Answer: _____

(1 mark)

6. Write the number in expanded notation.

2546

Answer: _____

(1 mark)

7. What is the product of 47 and 23?

Answer: _____

(1 mark)

8. A girl bought some plant seeds costing \$5.50, a bag of top soil costing \$55.00 and a bag of fertilizers costing \$18.75. How much money did she spend?

Answer: _____

(1 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

9. $645 \div 12 =$

Answer: _____

(1 mark)

10. What is the value of the set of coins and bills?

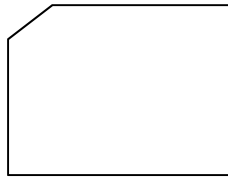


Answer: _____

(1 mark)

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11. Determine the number of lines of symmetry in the plane shapes below.



Answer: _____

(1 mark)

12. The turn made clockwise on a clock when the second hand turns from 12 and stops at 9 is _____

Select one answer:

- (A) Whole turn
- (B) Three quarter turn
- (C) Half turn
- (D) Quarter turn

Answer: _____

(1 mark)

13. Name the angle shown below.



Answer: _____

(1 mark)

14. Convert to millimetres.

49.17 cm

Answer: _____

(1 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

15. Which standard unit would you use to measure the length of a playfield?

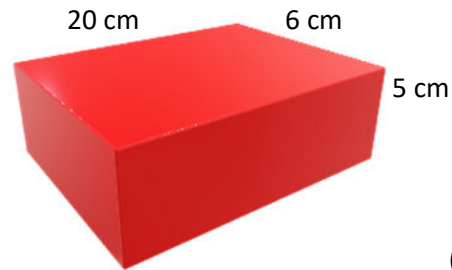
Select ONE.

- (A) Centimetres
- (B) Millimetres
- (C) Metres
- (D) Kilometres

Answer: _____

(1 mark)

16. Calculate the volume of the cuboid below.



Answer: _____

(1 mark)

17. Calculate.

Kg	g
4	240
3	320
<u>+ 6</u>	<u>715</u>

Answer: _____

(1 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

18. Determine the mode for the set of numbers below.

11 15 6 17 10 16 12 16 20

Answer: _____

(1 mark)

19. Arrange the following numbers in ascending order.

783 492 658 834 517

Answer: _____

(1 mark)

20. The mean of 5 numbers is 60. What is the sum of the numbers?

Answer: _____

(1 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

SECTION 2

21. What is the median score for the following numbers?

92 78 81 86 82 64 77

Answer: _____

(2 mark)

22. Write the set of multiples of 7 between 20 and 45.

Answer: _____

(2 mark)

23. A boutique is offering a 5% discount for cash purchases. You are paying cash for a jacket with the price of \$210. How much are you paying for the dress?

Answer: _____

(2 mark)

24. A retailer buys a stove from a manufacturer for \$740.00. Calculate the selling price if he incurs a loss of 15% when he sells it.

Answer: _____

(2 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

25. Jullian just got a grade of 94 on a report. However, he turned it in late, and his teacher is going to deduct 25 points. What will Jillian's final score on the report be?

Answer: _____

(2 mark)

26. Abram is spending a day at the hotel pool. He enjoys jumping from the very cool pool (79 degrees) to the very hot Jacuzzi (104 degrees).

a. What temperature change is Abram experiencing as he moves from pool to Jacuzzi?

Answer: _____

(1 mark)

b. The swimming pool holds 5 times more gallons of water than the Jacuzzi. How much water is in the swimming pool?



600 gallons

Answer: _____

(1 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

27. Simone earned \$250 on Monday, \$275 on Tuesday and \$300 on Wednesday. If she wants to earn an average of \$250 for the work week by Friday, how much more should she earn by Friday?

Answer: _____

(3 mark)

28. Tammy had \$151, and borrowed \$57 from her sister to help pay for a new microwave oven costing \$200.00. She received a 25% discount on the microwave. Can she buy a hand blender on sale for \$55.00. Explain.

Answer:

(2 mark)

29. Identify the part of the pattern that repeats and complete the pattern.



Answer: _____

(2 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

30. How many right angles are there on the faces of a rectangular prism?

Answer: _____ (2 mark)

31. Susan place blueberries on two plates. There are $\frac{3}{4}$ kg of blueberries on one plate and $\frac{2}{3}$ kg on another plate.

a. How many grams of blueberries are there altogether?

Answer: _____ (1 mark)

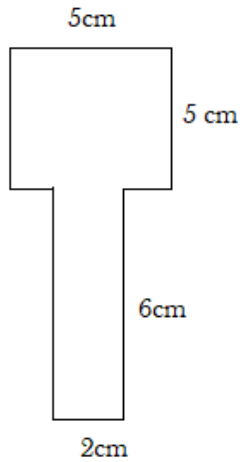
b. She wants to make sure the two plates are even. Show and explain how she should do this.

Answer:

(2 marks)

SEA Practice Test 8 - Mathematics (75 minutes)

32. Find the perimeter of the figure below.

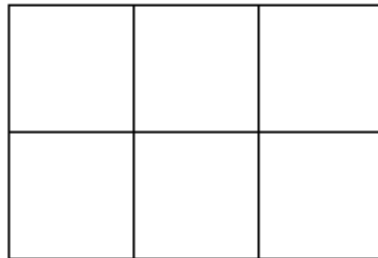


Answer: _____

(2 mark)

33. The shape has been made using identical squares. One square has a perimeter of 16 m.

a. What is the perimeter of the whole shape?



Answer: _____

(3 mark)

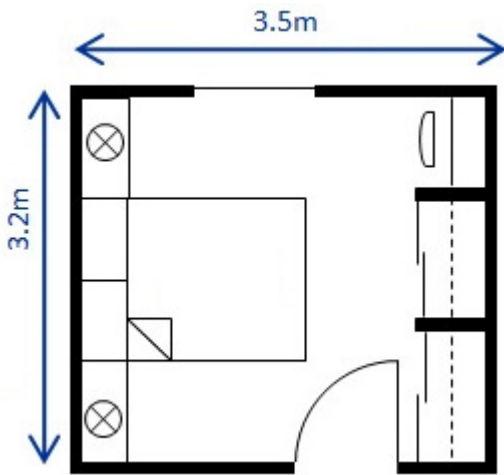
b. what is the area of the whole shape?

Answer: _____

)

SEA Practice Test 8 - Mathematics (75 minutes)

34. How much will it cost to carpet a room if the carpeting cost \$14.50 per square m.



Answer: _____

2 marks

35. The table below shows the number of pets owned by some students. What fraction of students own at least 4 pets?

No. of Pets	0	1	2	3	4	5
No. of Students	3	6	8	6	4	2

Answer: _____

(2 mark)

36. Vincent saved \$2.50, \$4.30, \$10.25, \$ 4.60 and \$3.60 from each day Monday to Friday. Calculate his mean saving per day.

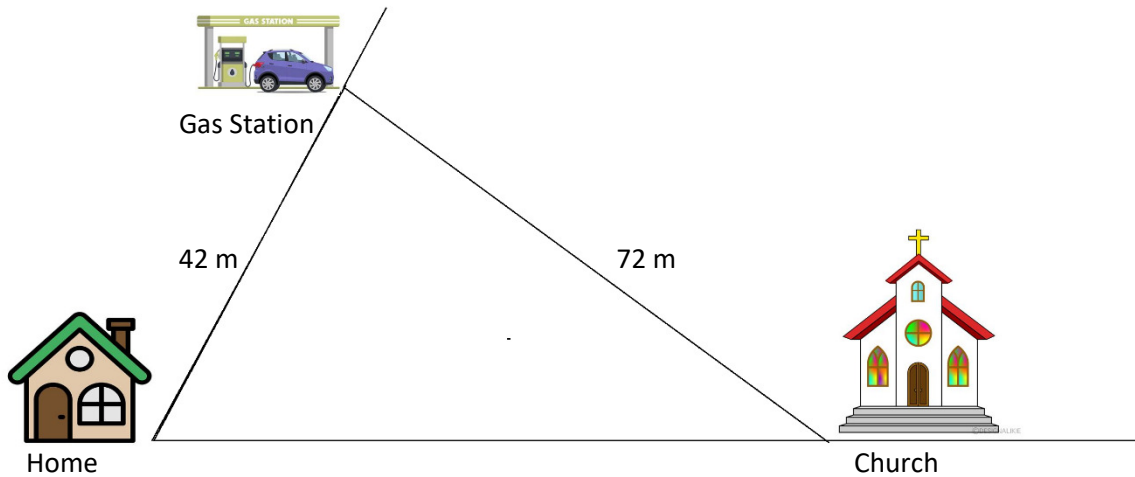
Answer: _____

(2 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

SECTION 3

37. The map below shows the route to church.



- a. Lin is at home. She is facing north. She made a turn of 270 degrees in an anti-clockwise direction. Which building is now in the direction she is facing? Explain.

Answer:

(2 marks)

- b. A distance around this triangular route is 150 m. if Lin drove from home to the gas station and then to church. Calculate the distance she still has to drive to get from the church to the home?

Answer: _____

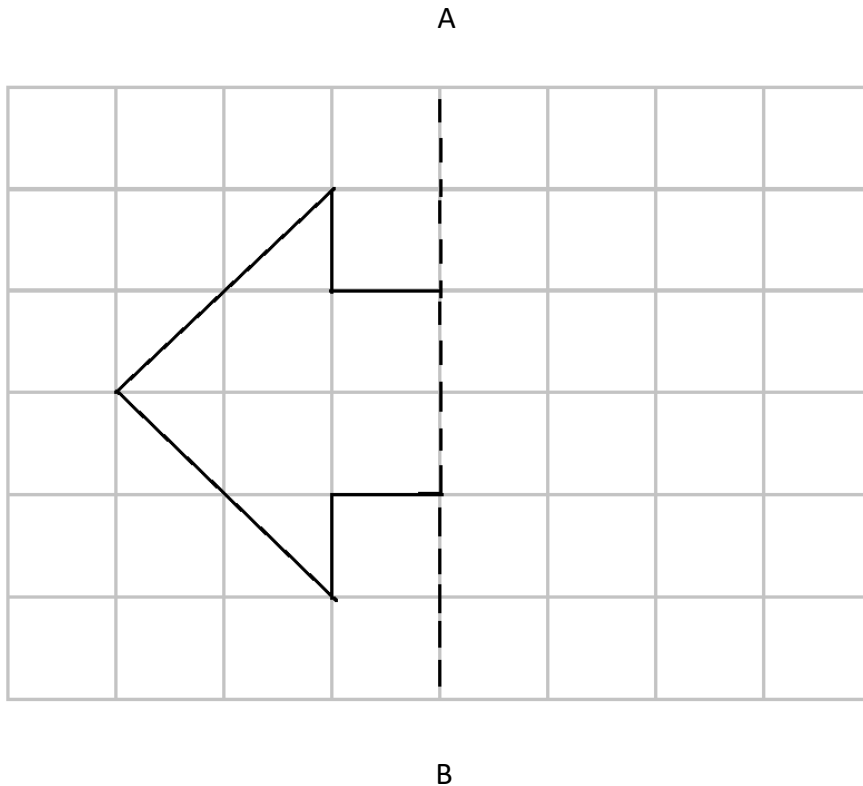
(2 marks)

SEA Practice Test 8 - Mathematics (75 minutes)

38. Observe the grid below before you answer the questions.

a. Complete the shape using AB as the line of symmetry.

(1 mark)



b. With the shape now drawn, draw another line of symmetry. Label it CD. (1 mark)

c. What is the area of the shape if the squares on the grid are of side 4 cm.

Answer: _____

(2 mark)

SEA Practice Test 8 - Mathematics (75 minutes)

39. Lisa wraps a gift box in the shape of a square-based prism. The box measures 12 cm at its sides.

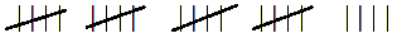
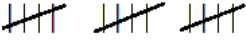

a) Draw the gift box below, showing its measurements. (1 mark)

b) What is total surface area of the box? (3 mark)

Answer: _____

SEA Practice Test 8 - Mathematics (75 minutes)

40. The tally chart below shows the number of animals bought by Farmer Brown over the years.

Animal	Tally	Amount
Cows		
Goats		
Sheep		

a. How many animals did Farmer Brown buy?

Answer: _____

(1 mark)

b. How many more cows are there than goats?

(1 mark)

Answer: _____

c. What percentage of the animals are sheep?


(1 mark)

Answer: _____

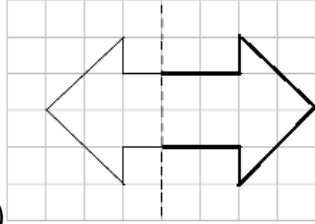
END OF TEST

SEA Practice Test 8 - Mathematics (75 minutes)

Answers:

- Nine thousand, three hundred, seven dollars and forty-five cents.
 - 50000 or 5 hundred thousand
 - Answer= 11
 - Answer= 8000
 - Answer: $64+100-4=160$
 - Answer=
 $(2 \times 1000) + (5 \times 100) + (4 \times 10) + (6 \times 1)$
 - Answer= $47 \times 23=1081$
 - Answer = \$79.25
 - Answer = 53.75
 - Answer= \$21.60
 - Answer= 0 symmetry
 - Answer= b
 - Answer = Obtuse angle
 - Answer = 491.7 mm
 - Answer= c
 - Answer=Volume: $20 \times 6 \times 5=60\text{cm}^3$
 - Answer = 14kg 275 g
 - Answer: 16 (the value that appears most often)
 - Answer= 492 517 658 783 834
 - Answer= $60 \times 5=300$
 - Answer= 81
 - Answers =Multiples of 7 between 20 and 45 are 21, 28, 35, 42
 - Answer = $100-5=95\%$ or 0.95;
 $210 \times 0.95=\$199.50$
 - Answer= $740 \times 0.15=\$111$ (loss); $740-111=\$629$ (selling price)
 - Answer= $94-25=69$
 - Answer: a) $104-79=25$ degrees
Answer: b) $600 \times 5=3000$ gallons
 - $250+275+300=825$
 $250 \times 5=1250$
Difference= $1250-825=425$
Answer= \$425 by Friday
 - Answer= Tammy has a total cash of \$208 after buying the microwave at the discounted price of \$150, or change (\$58) will be sufficient to buy the blender.
- 
- Answer=
 - There are 6 faces. Each with 4 right angles.
Answer= $6 \times 4=24$ right angles
 - Answer a) $\frac{3}{4} + \frac{2}{3}=1 \frac{5}{12}$ kg of blueberries
Answer b) $\frac{1}{12}$. She should remove $\frac{1}{12}$ of the berries from the first plate. This is the best solution to make it even is the amount of berries are set.
 - Answer= $5+5+1.5+6+2+6+1.5=32$ cm
 - Answer a) perimeter of shape= $12+8+12+8=40$ m
Answer b) Area= $12 \times 8=96\text{m}^2$
 - Area $3.5 \times 3.2=11.2$;
 $11.2 \times \$14.5=\162.40 (Answer)
 - Total students= $3+6+8+6+4+2=29$;
Answer= $\frac{6}{29}$
 - $2.50+4.30+10.25+4.60+3.60=25.25$
Answer = $\$25.25/5=\5.05 per day saved
 - Answer= Answer= a) 270 is a half and a quarter turn. An anticlockwise turn of a half and a quarter will have him turn to face the church.

SEA Practice Test 8 - Mathematics (75 minutes)



38. Answer= a)

b) area of a square= $4\text{cm} \times 4\text{cm} = 16\text{cm}^2$;
total area = 16×6 (squares) = 96cm^2

39. Answer=

1 square area = $12 \times 12 = 144\text{cm}^2$

There are 6 faces

Answer b) total surface

area = $144 \times 6 = 864\text{cm}^2$

40. Answer a) $24 + 15 + 21 = 60$ animals

Answer b) $24 - 12 = 9$ more cows than
goats

Answer c) $21/60 \times 100 = 35\%$ is the
amount of sheep