

R&PUBLIC OF SOMALILAND

FORM EIGHT EXAMS, 2021

MATHEMATICS



NATIONAL EXAMINATION BOARD



Total score

Name

School.....

Roll No.....

REPUBLIC OF SOMALILAND

MINISTRY OF EDUCATION AND SCIENCE

SOMALILAND NATIONAL EXAMINATION AND CERTIFICATION BOARD

GRADE 8

MATHEMATICS

2020 – 2021

Time 2 Hours

PLUS 10 MINUTES FOR READING THROUGH THE PAPER

INSTRUCTIONS

This paper consist of 09 printed pages

Count them now. Inform the invigilator if there are any pages missing

The Exam consist of TWO parts:

Part1: 30 multiple choice Questions 60 marks

Part2: 8 structured Questions 40 marks

TOTAL 100 marks

- Answer ALL questions in part 1, and Part 2
- Extra papers and mobile are Not Allowed

PART ONE: MULTIPLE CHOICE QUESTION

(30 x 2 = 60 marks)

Circle the correct answer only

1. Write in figures eight thousand four hundred and five

- a) 8405 b) 80405 c) 80045 d) 80450

2. If $x + 6 = 9$ the value of X is

- a) 6 b) 2 c) 3 d) 4

3. 3 kg is equivalent to

- a) 30,000 gr b) 3000 gr c) 300 gr d) 30 gr

4. The volume of cylindrical is found by :

- a) Base area x height b. Base area + height
c. Base area + height d. Base area - height

5. A rectangular tank has length = 40 m, breadth 30 m, height = 12 m hence its volume

- a) 24400m^3 b) 1440m^3 c) 144m^3 d) 14400m^3

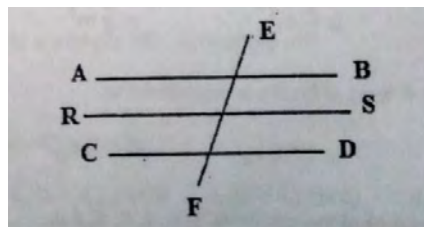
6. When 12000 grams are converted in to Kg the answer is

- a) 120 kg b) 24 kg c) 12 kg d) 1.2 kg

7. The value of $-3 - (-5)$ is

- a) 2 b. 3 c. -8 d. -2

8. The figure :



The transversal is:

- a) AB b) RS c) CD d) EF

9. The circumference of circle with radius 7 cm is

- a) 44 cm b) 42 cm c) 404 cm d) 48 cm

10. The cubic root of $\sqrt[3]{0.027}$ is

- a) 0.03 b) 0.3 c) 0.003 d) 3.00

11. The simplified form of $\frac{18a^2b}{6ab}$

- a) 3 ab b. 3b c. 3a d. 3a²

12. The solution of set of the equation $X - Y = 6$ is :

- a) (6 ,5) b) (9 , 7) c) (2 , -2) d) (10 , 4)

13. The solution of set of the equation $(x - 4)(x + 5) = 0$ is :

- a) (-4 , 5) b) (4 , -5) c) (4 , 5) d) (-4 , -5)

14. The solution of set of the simultaneous equations :

$$x + y = 15$$

$$x - y = 5$$

is:

- a) (10 , 5) b) (-10 , 5) c) (10 , -5) d) (-10 , -5)

15. When 500,000 cm³ converted to m³ , the answer is

- a) 10 m³ b) $\frac{1}{4}$ m³ c) $\frac{1}{2}$ m³ d) 5m³

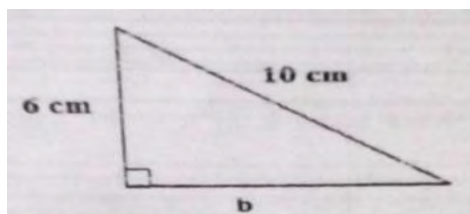
16. The weight of 1.5 tons of books is equivalent to

- a) 150000 kg b) 1500 kg c) 150 kg d) 15kg

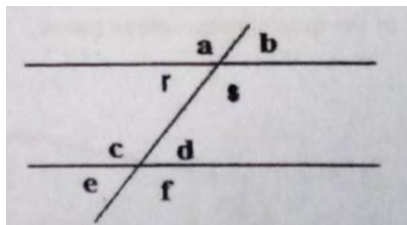
17. The mean (average) of the numbers 5 , 9 , 4 , 6 , 8 , 4 , is :

- a) 6 b) 8 c) 5 d) 5

18. The range of these data is 6, 4, 9, 7, 2, 5, 5, 3, is
a) 6 b) 5 c) 7 d) 3
19. The median of this group 2, 3, 4, 1, 6, 7, 5, 3, 8, is
a) 8 b) 6 c) 5 d) 4



20. The length of this side marked with letter b of the triangle shown below is
a) 6 cm b) 7 cm c) 4 cm d) 8 cm
21. The figure shown below has angle "a" vertically opposite to which angle



- a) r b) d c) s d) f
22. a right angled triangle is triangle which right angle of
a) 80° b) 70° c) 60° d) 90°
23. The factors of $x^2 + 7x + 12 = 0$ is :
a) (x-4) (x-3) b) (x+4) (x+3) c) (x+4) (x+3) d) (x+4) (x+3)
24. The methods of solving simultaneous equation include :

- a) Multiplication and divide b) addition and subtraction
c) Addition and multiplication d) division and subtraction

25. The number written below which one is not prime number

- a) 21 b) 19 c) 37 d) 17

26. The number 0.0000256 in stud scientific form (notation) is :

- a) 2.5×10^{-4} b) 2.56×10^{-3} c) 2.56×10^{-4} d) 2.56×10^3

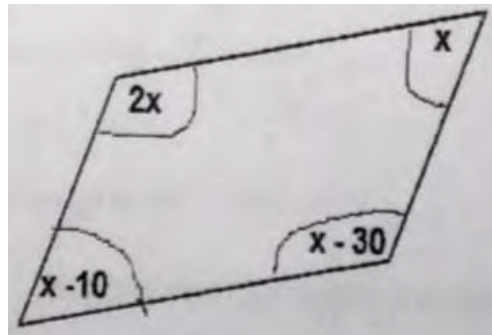
27. The logarithm of 100,000 to base ten is :

- a) 4 b) 5 c) 3 d) 6

28. And old man has 10 children of ages 3 , 5 , 7 , 9 , 11 , 15 , 20, 22 , 24 , and 14 hence their mean is :

- a) 14 b) 12 c) 16 d) 10

29. The value of x in this equation $3x+4 = 19$ is :



- a) 4 b) 5 c) 6 d) 7

30. Find the variable of x of the quadrilateral written below

- a) 90° b) 400 c) 600 d) 80°



PART TWO: Structured Questions Answer all Questions (40 marks)

1. A district contains 320,000 children, 21,500 women and 20500 men. How many people lived in the district altogether? (5 mark)

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2. What is the value of x in the equation $\frac{x-5}{2} = \frac{x-4}{5}$ (5 mark)

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3. Simplify a) $2(4x + 2) + 3x$ 1 marks

b) $4(2x-1) + 3(x+5)$ 2 marks

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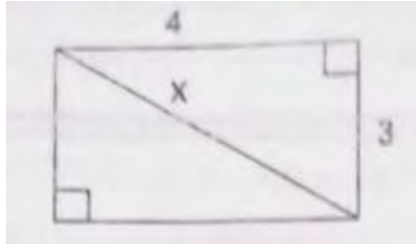
c) $3(4x+1) - (5x-2)$ 2 marks

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4. Find the length of the diagonal the rectangles written below

b)

(2 marks)

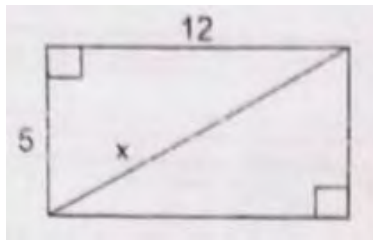


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(3 marks)

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5. Find a) the length of the height of the triangle whose area is 48cm, When the base is 6cm. (3 marks)

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b) The area of the triangle with height 15cm and base 4cm

2 marks

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6. Solve the simulation equations below

$$5x-2y=12$$

$$3x+2y=4$$

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7. Find

a) The median of the data 8kg,7kg,9kg,10kg,and 11kg (2 marks)

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b) The mean of the data 8,11,13,15,18,26,29,31,33,38,36 3 marks

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8. If die is tossed ,what is probability to obtain:

a) An even number?

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b) An odd number?

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c) A number greater than 3?

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