

PRIMARY EDUCATION SERVICES NETWORKING ORGANIZATION (PESNO)



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STANDARD VII FIRST MOCK EXAMINATION

SUBJECT: MATHEMATICS [02]

DATE: 8TH MARCH, 2021

TIME: 2 HRS

CANDIDATE'S NAME: _____

SCHOOL: _____

DISTRICT: _____ **REGION** _____

INSTRUCTIONS:

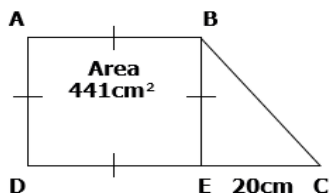
1. Fill in the prime personal information in the first part of your answer sheet
2. This paper consists of 45 questions with section A, and B in four printed pages
3. Answer all questions as per instructions in each section
4. Observe neatness in your workings
5. Shade the correct answer on the OMR answer sheet given for no. 1 to no. 40
6. For no. 41 to no. 45 write the solution and the answer at the back of the answer sheet given

1. $4.3 - 193 =$
 a. 188.7 b. -188.7 c. 150 d. 199.7 e. 198.7
2. $594 + 7537 =$
 a. 7021 b. 7131 c. 13477 d. 8131 e. 8031
3. $3\frac{5}{9} + 9\frac{1}{4} =$
 a. $12\frac{6}{13}$ b. $\frac{29}{36}$ c. $12\frac{29}{36}$ d. $13\frac{6}{13}$ e. $\frac{6}{13}$
4. $4012 - 619 =$
 a. 3403 b. 4393 c. 3493 d. 4303 e. 3393
5. $(+18) - (-60 + +5) =$
 a. 73 b. 83 c. 47 d. 37 e. 55
6. $672 + 49087 + 1436 =$
 a. 51195 b. 49759 c. 50523 d. 50195 e. 51185
7. $300 + 84 \div 4 - 8 =$
 a. 88 b. 313 c. 96 d. 321 e. 80
8. $0.17 \times 18.03 =$
 a. 30.651 b. 3.0651 c. 3065.1 d. 306.51 e. 30651
9. $35\frac{1}{2} \div 10.65 =$
 a. 23 b. $7\frac{1}{2}$ c. $3\frac{1}{3}$ d. $\frac{3}{10}$ e. 2.5
10. $4.212 \div 0.39 =$
 a. 1.8 b. 100.8 c. 0.18 d. 0.018 e. 10.8
11. $5301 \div 57 =$
 a. 903 b. 0.01 c. 93 d. 9.3 e. 83
12. If $X:Y:5 = 24:32:40$, find the value of x and y
 a. $X=3, Y=2$ b. $X=4, Y=3$ c. $X=3, Y=4$ d. $X=2, Y=5$ e. $X=2, Y=3$
13. Find the value of X if $1 - 2X = -3X - 1$
 a. -2 b. -3 c. 2 d. 4 e. 1
14. Find the square root of 610.09
 a. 20.47 b. 204.7 c. 0.247 d. 24.7 e. 2.47
15. How many 0.75 are there in 24?
 a. 32 b. 18 c. 23 d. 75 e. 24
16. Convert $47\frac{1}{7}\%$ into simple fraction
 $47\frac{1}{7}$ b. $14\frac{2}{7}$ c. $\frac{33}{70}$ d. $\frac{33}{7}$ e. $\frac{330}{7}$
17. Find the product of the GCF and LCM of $\frac{111}{3}$, 148 and $\frac{370}{5}$
 a. 37 b. 148 c. 5476 d. 4 e. 0
18. Simply : $4(X+1) - 2(-X - 3)$
 a. $6X+10$ b. $6X-10$ c. $10-6X$ d. $2X-5$ e. $2X+2$
19. Write MCMLXVII in Hindu Arabic numbers
 a. 967 b. 1947 c. 947 d. 1967 e. 2167
20. Change “ a quarter to midnight” into 24 hours system
 a. 0000 hours b. 0015 hours c. 2315 hours d. 2415 hours e. 2345 hours
21. Write the product of all prime numbers between 42 and 49
 a. 1935 b. 2021 c. 2115 d. 9045 e. 2058

22. Write the next number in the following sequence; 1,8,23,48,85,_____

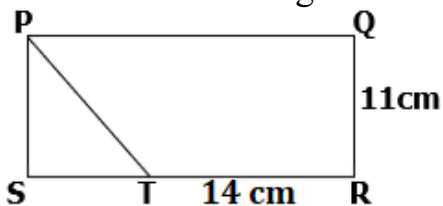
- a. 136 b. 93 c. 99
d. 90 e. 95

23. Find the length of BC in the figure below if the area of the square ABED is 441cm^2



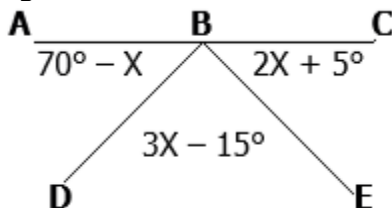
- a. 29 cm b. 34 cm c. 21 cm
d. 47 cm e. 25 cm

24. The perimeter of the rectangle below is 62 cm. Find the area of triangle PST



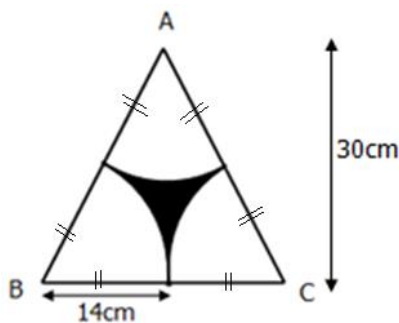
- a. 22 cm^2 b. 66 cm^2 c. 33 cm^2
d. 88 cm^2 e. 220 cm^2

25. Find the size of angle CBE if ABC is a straight line



- a. 30° b. 60° c. 65°
d. 75° e. 40°

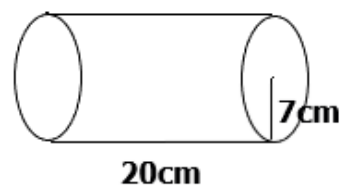
26. The figure below is an equilateral triangle. Find the area of the shaded part;



- a. 196 cm^2 b. 112 cm^2 c. 420 cm^2
d. 308 e. 317.3 cm^2

27. Find the capacity of the cylinder below in litres. ($1\text{ L} = 1000\text{ cm}^3$)

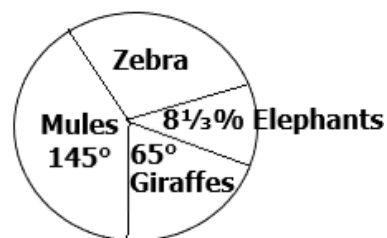
- a. 3080L b. 30800 L c. 308L
d. 30.8 L e. 3.08L



28. Which of the following equations represents Pythagoras theorem?

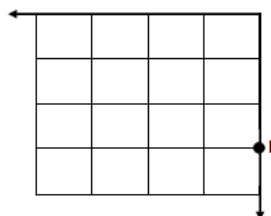
- a. $(a+b)^2$ b. $C = \sqrt{a^2 + b^2}$
c. $a^2 + c^2 = b^2$ d. $a^2 = b^2 + c^2$ e. $a^2 = b^2 - c^2$

29. The following pie chart shows the number of different animals at Mikumi National Park. If there are 24000 zebras, how many elephants are there?



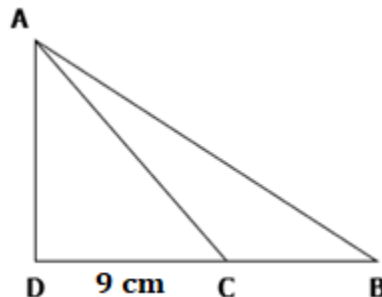
- a. 6000 b. 81300 c. 6500
d. 72000 e. 40000

30. Find the coordinates of point E in the coordinate plane below:



- a. $(-3,0)$ b. $(0,0)$ c. $(0,-3)$
d. $(-4,-3)$ e. $(0,+3)$

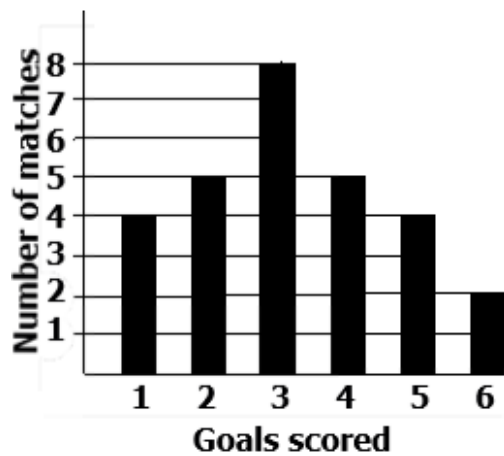
31. Find the area of triangle ABC if $AB = 30\text{ cm}$, $BC = 15\text{ cm}$ and $AD = 12\text{ cm}$



- a. 90 cm^2 b. 180 cm^2 c. 54 cm^2
d. 135 cm^2 e. 144 cm^2

32. The bar graph below shows the number of goals scored by Barcelona FC in different matches on a particular month. In how

many matches did Barcelona FC score four or more goals?

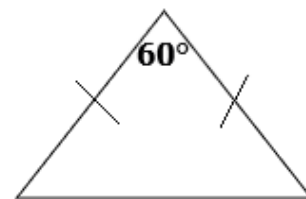


- a. 5 b. 4 c. 2
d. 9 e. 11
33. Find 0.25% of Sh. 10000=
a. Shs. 2500 b. Shs. 7500 c. Shs. 25
d. Shs. 75 e. Shs. 12500
34. Jordan went to the shop with Shs. 85800/= and bought the following items,
3 shirts @ Shs 4500
5 pens@ Shs. 500
4 bed sheets@ Shs. 6400 and 2 trousers. If he remained with Shs. 18500/= find the cost of each trouser.
a. Shs. 7450 b. Shs. 12850 c. Shs. 70100
d. Shs 21700 e. Shs 43400
35. Find four consecutive numbers such that the sum of the second and the fourth is 48
a. 20,22,24,26 b. 22,23,24,25
c. 18,21,24,27 d. 4,14,24,34
e. 6,12,24,30
36. Find a number such that, $\frac{2}{3}$ of it is 12 less than the number
a. 12 b. 24 c. 30
d. 36 e. 48
37. A car travelled 54 km in 6 hrs. calculate its speed in km/h.
a. 9 km/h b. 324 km/h c. 0.11 km/h
d. 90km/h e. 0.9 km/h

38. The price of a new dress is Shs. 16000/=. If Dorothy bought the dress at Shs 11200/=: what percentage of discount did she get?
a. Shs. 4800 b. 30% c. 42.9%
d. Shs. 27200 e. 50%
39. Salim, Juma and Issa shared a certain amount of money in the ratio 3:5:9 respectively. If Issa got Shs 3600/=: how much money did Juma get?
a. Shs 300 b. Shs 5400 c. Shs180
d. Shs 6600 e. Shs2000
40. Bosco borrowed Shs 120000/= at 5% per annum in January 2020 and paid the money on August 2020. Calculate the amount of money he paid back.
a. shs. 130000 b. Shs 3500
c. Shs. 124000 d. Shs 4000
e. Shs 123500

SECTION B

41. If $a = -1$ and $b = 2$, find the value of;
$$\frac{a^2 + b^2 - ab}{a + 2a^2}$$
42. Find the total surface area of a pipe with height 200cm and its base has a circumference of 220cm
43. How many lines of symmetry are there in the figure below?



44. Lisa sold a TV set for Shs. 260,000/= and got a loss of Shs 100,000/=. If she wants to make a profit of 40%, what should be her selling price?
45. Three bells ring at intervals of 6 min, 8 min and 10 min. If they rang together at 1:20 pm, at what time will they ring again together? Write your answer in 24hrs system