1020 NST
0301
MATHEMATICS
Objective

NATIONAL STANDARDIZED TEST

DECEMBER 2021   **BASIC 4 MATHEMATICS**   1 HOUR 15 MINUTES
Objective Test

*Do **not** open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully. Write your **name** and **index number** in **ink** in the spaces provided above.*

The Paper will last 1hour 15 minutes

*Answer **all** the questions on your Objective Test answer sheet.*

1. Use 2B pencil throughout.
2. On the pre-printed answer sheet, check that the following details are **correctly** printed:
   Your **surname** followed by your **other names**, the *Subject Name*, your *Index Number*, *Centre Number* and the *Paper Code*.
3. In the boxes marked *Candidate Number, Centre Number* and *Paper Code*, **reshade** each of the shaded spaces.
4. An example is given below. This is for a candidate whose name is Joan Esi AMU. Her *index number* is 772384188 and she is writing the examination at *Centre Number* 77234. She is offering *Mathematics* and the *Paper Code is* 0301.

THE WEST AFRICAN EXAMINATIONS COUNCIL, GHANA
NATIONAL STANDARDIZED TEST
OBJECTIVE ANSWER SHEET

CANDIDATE NAME:	SUBJECT NAME:
AMU JOAN ESI	MATHEMATICS 1

1. Use 2B pencil, Press firmly.
2. Answer each question by choosing one letter and then, shade through the letter chosen like this ⊏A⊐ ⊏B⊐ ⊏C⊐ ⊏D⊐ ⊏E⊐
3. If you want to change an answer, erase your first mark completely.
4. If only four alternative answers are given for each question, ignore the letter E.
5. Your question paper may have fewer than 60 questions.

CANDIDATE NUMBER
7 7 2 3 8 4 1 8 8

CENTRE NUMBER
7 7 2 3 4

PAPER CODE
0 3 0 1

For Supervisors only. If candidate is absent shade this space. ⊏⊐

Answer all questions.

*Each question is followed by four options lettered **A** to **D**. Find the **correct** option for **each** question and shade in **pencil** on your answer sheet the answer space which bears the same letter as the option you have chosen. Give only **one** answer to **each** question. An example is given below.*

If $3n + 2 = 8$, find the value of n.

A.   10
B.   6
C.   3
D.   2

The correct answer is 2, which is lettered D and therefore answer space D would be shaded.

   ⊏A⊐   ⊏B⊐   ⊏C⊐   **━D━**   ⊏E⊐

Think carefully before you shade the answer spaces. Erase completely any answers you wish to change.

Do all rough work on this question paper.

Now answer the following questions.
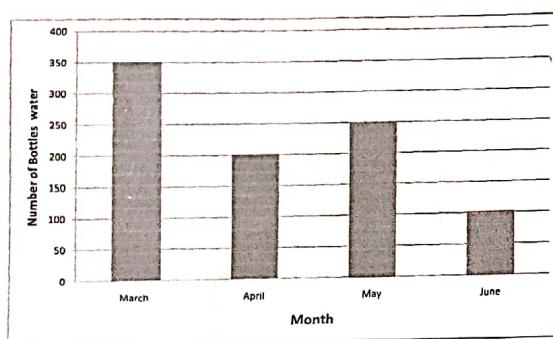
1. How many bottles of water were sold in March ?
   A.   200
   B.   350
   C.   250
   D.   300

2. Which one of the following fractions is larger than $\frac{1}{2}$?

   A. $\frac{2}{3}$

   B. $\frac{2}{5}$

   C. $\frac{1}{3}$

   D. $\frac{1}{4}$

3. Asabea started cooking at 9:16 am. If she finished at 9:42 am, how many minutes did she spend ?
   A.   27
   B.   26
   C.   36
   D.   37
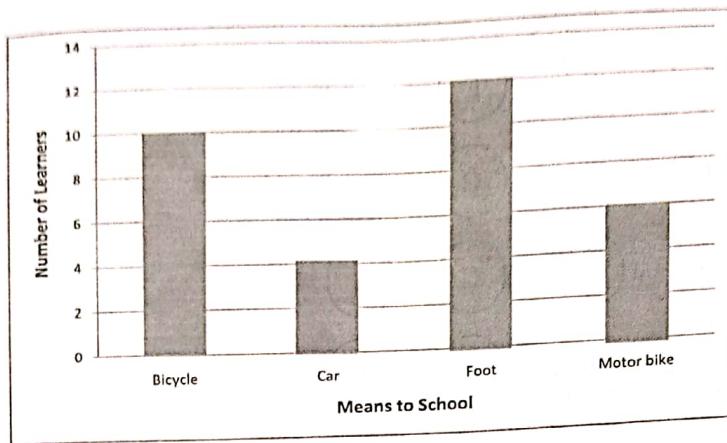
The chart shows how pupils in Basic 4 in a certain community go to school. Use this to answer questions 4, 5, 6 and 7.

4.   By what means do most pupils go to school ?
        A.   Motor Bike
        B.   Bicylce
        C.   Car
        D.   Foot

5.   How many more pupils go to school on foot than by car?
        A.   2
        B.   6
        C.   8
        D.   10

6.   On a given day, 3 of the pupils who go to school by bicyle were absent. How many pupils used bicycle to school on that day?
        A.   9
        B.   7
        C.   3
        D.   1

7.   How many pupils are in the class ?

        A.   34
        B.   32
        C.   30
        D.   28

8.   What is the value of 8 in 4,870 ?
        A.   Eight Hundred
        B.   Eighty
        C.   Eight
        D.   Eight Thousand

9.   There are 12 eggs in a basket, 4 are broken. Which sentence describes the number of eggs left ?
        A.   4 x 12 = ☐
        B.   4 + 12 = ☐
        C.   12 ÷ 4 = ☐
        D.   12 - 4 = ☐
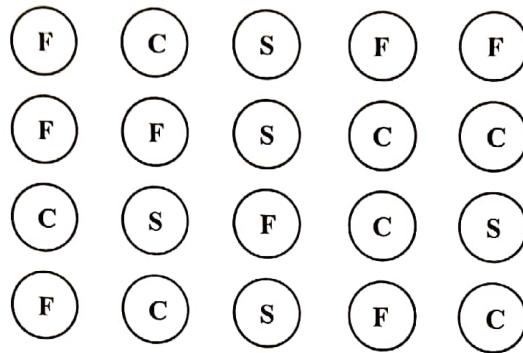
10. Which table correctly describes the number of bottle tops in the picture ?

A.

TOPS	NUMBER
c	8
F	7
S	5

C.

TOPS	NUMBER
c	7
F	7
S	6

B.

TOPS	NUMBER
c	5
F	8
S	7

D.

TOPS	NUMBER
c	7
F	8
S	5

A teacher shared some toffees equally among 8 leaners in a class. Each learner received 9 toffees. Use the information to answer questions 11 and 12.

11. Which of the following describes the number sentence for the information ?

A. $8 \div 9 = \square$

B. $8 - 9 = \square$

C. $\square \div 8 = 9$

D. $\square + 8 = 9$

12. How many toffees did the teacher share among the 8 learners ?
   A. 17
   B. 72
   C. 89
   D. 92

13. Which of the following is divisible by 4 ?
   A. 62
   B. 52
   C. 74
   D. 90

14. A class teacher started a lesson at 8:15 am. If the lesson lasted for 40 minutes, at what time did the lesson end ?
    A.   8: 45 am
    B.   8: 50 am
    C.   8: 55 am
    D.   8: 35 am

15. A teacher has a total of 20 board markers. 6 of the markers are black, 5 are blue and the rest are red. Which number sentence represents the information ?

    A. $6 + 5 + \boxed{} = 20$

    B. $6 + \boxed{} = 20 + 5$

    C. $6 + 5 - \boxed{} = 20$

    D. $6 - 5 + \boxed{} = 20$

A number pattern is give by :

31	33	35	37	39	X	Y	Z

Use the pattern to answer questions

16. List the numbers representing X , Y and Z .
    A.   40, 42, 44
    B.   41, 43, 45
    C.   42, 44, 46
    D.   40, 42, 45

17. Find the sum of the numbers representing X and Y ?
    A.   81
    B.   82
    C.   84
    D.   86

18. What is the value of (Z - X) ?
    A.   4
    B.   3
    C.   2
    D.   1

Mr. Adu's Poultry Farm

Birds	Number of Birds	Number of Ticks (✓)
Cocks	30	15
Hens	40	20
Guinea Fowls	50	25
Ducks	60	

The table represents the type of birds and number of each bird on Mr Adu's farms. Mr Adu counted the birds and used a tick (✓) each to represent 2 birds.

19. What is the total number of ticks for ducks?
    A.   50
    B.   40
    C.   30
    D.   20

20. Which is the missing number in this pattern ?

    12,000   22,000 _____ 42,000
    A.   23, 000
    B.   31,000
    C.   32,000
    D.   43,000
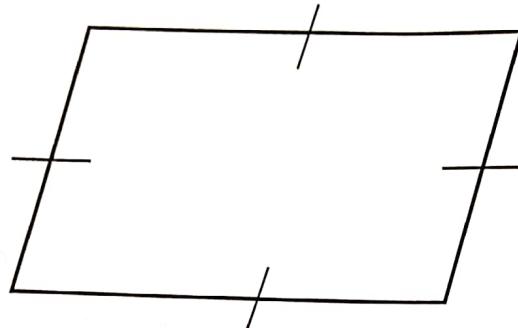
21. How many lines of symmetry has the shape ?
   A.   1
    B.   2
    C.   3
    D.   4

22. How many factors are in 18 ?
    A.   8
    B.   7
    C.   6
    D.   3

23. What is the rule for the pattern 11, 14, 17, 20, 23 .
    A.   Add 3
    B.   Add 2
    C.   Add 4
    D.   Add 5

60 m

100 m
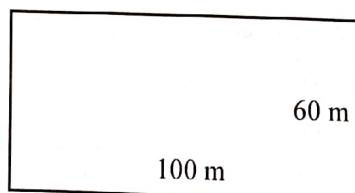
24. The shape is a rectangular school park. Ali ran along the four sides of the park. What distance did Ali ran?
    A.   360 m
    B.   320 m
    C.   200 m
    D.   160 m

Use the chart below to answer question 25.
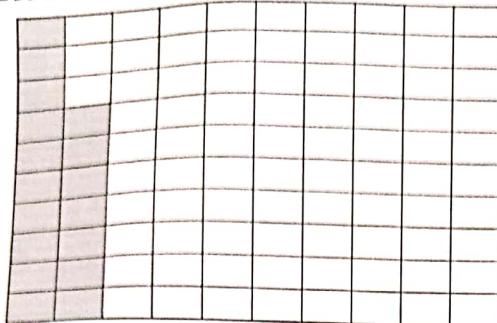
25. What percentage of the (10 x 10) strip is shaded ?
   A.   70%
   B.   83%
   C.   17%
   D.   33%

Amina had 34 oranges. She gave 16 of them to Ato and was left with P oranges. Use the information to answer questions 20 and 21.

26. Which one of the following is the correct number sentence ?
   A.   16 - 34 = P
   B.   34 + P = 16
   C.   34 - 16 = P
   D.   34 + 16 = P

27. How many oranges will be left ?
   A.   17
   B.   18
   C.   49
   D.   50

28. A carpenter bought a piece of wood of length 34.5m. If 21m of the wood was used, what length is left ?
   A.   13.5 m
   B.   14.5 m
   C.   14.0 m
   D.   13.0 m

29. How many GH¢ 100.00 notes can be obtained from GH¢ 1,600 ?
   A.   6
   B.   10
   C.   16
   D.   160

30. Which of these shapes has four sides ?

   A.   P
   B.   Q
   C.   R
   D   S

4cm   4cm

3cm
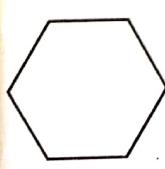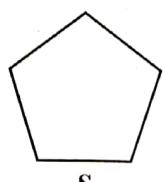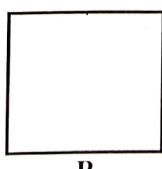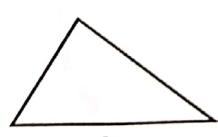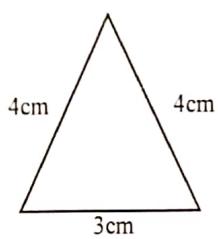
31. What type of triangle is this ?
    A.   Isosceles
    B.   Equilateral
    C.   Scalene
    D.   Right – angled

32. Change 4,500 millitres to litres.
    A.   450 litres
    B.   0.45 litres
    C.   4.5 litres
    D.   45   litres
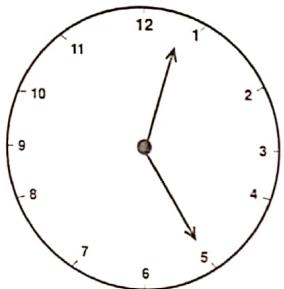
33. What is the time on the clock ?
    A.   11:25
    B.   12:25
    C.   5:05
    D.   5:10

Ata	0	0			
Kuma	0	0	0	0	
Sena	0	0	0		
Adjoa	0	0	0	0	0

34. The chart represents number of pawpaw eaten by 4 families. How many pawpaw did Kuma's family eat?
    A.   4
    B.   3
    C.   2
    D.   1

35. What number should be added to 14 to make 23 ?
    A.   9
    B.   12
    C.   13
    D.   14

END OF TEST