

SCHOOL BASED EVALUATION TEST

STANDARD SIX - YEAR 2019

MATHEMATICS

6

Time : 2 Hours



STEP FLYER

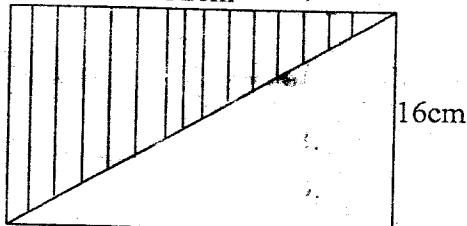
002

READ THESE INSTRUCTIONS CAREFULLY.

1. You have been given this question paper and a separate answer sheet. The question paper contains 50 questions.
2. Make sure that you have written on the answer sheet.

(i) Your name

(ii) Name of your school

1. What is eighty million eighty thousand eight hundred and eighty eight
A. 80080888 B. 8080888
C. 8080808 D. 8080080
2. What is the place value of digit 4 in the number 62.624
A. ones B. tens
C. thousandths D. hundredths
3. What is the next number in the series
1, 4, 8, 15 _____
A. 28 B. 32
C. 30 D. 25
4. Onyango uses 500ml of paraffin per day for cooking. How many litres does he use in 10 days
A. 50 B. 500
C. 200 D. 5
5. Work out
 $68753 + 29578 =$
A. 27133 B. 98331
C. 97331 D. 98301
6. Find the area of a plot measuring 27m by 30m
A. $57m^2$ B. $800m^2$
C. $80m^2$ D. $810m^2$
7. Round off 2647 to the nearest hundred
A. 3000 B. 2700
C. 2600 D. 2640
8. What is the area of the shaded part in the given figure below

A. $256cm^2$ B. $640cm^2$
C. $512cm^2$ D. $160cm^2$
9. Convert 210 seconds into minutes and second
A. 30min B. 3min 3 sec
C. 30min 30sec D. 3 min 30sec
10. What is the reciprocal of $3\frac{1}{2}$
A. $\frac{7}{2}$ B. $\frac{6}{2}$
C. $\frac{2}{7}$ D. $\frac{2}{6}$
11. There are 149246 boys in a location and 248357 girls in the same location. How many people are in this location
A. 397513 B. 397603
C. 397503 D. 397613
12. Calculate
 $9 \times 6 \times 5 =$
A. 54 B. 30
C. 280 D. 270
13. Work out
 $\sqrt{289}$
A. 17 B. 13
C. 23 D. 27

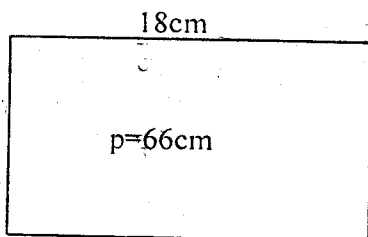
14. Which one of the following shows the prime factorization of 144

- A. $4 \times 4 \times 9$
- B. $2 \times 2 \times 4 \times 3 \times 3$
- C. $2 \times 2 \times 3 \times 3 \times 3$
- D. $2 \times 2 \times 2 \times 2 \times 3 \times 3$

15. Find the LCM of 3, 8 and 9

- A. 36
- B. 72
- C. 18
- D. 216

16. The perimeter of the figure below is 66cm. What is the width of the figure



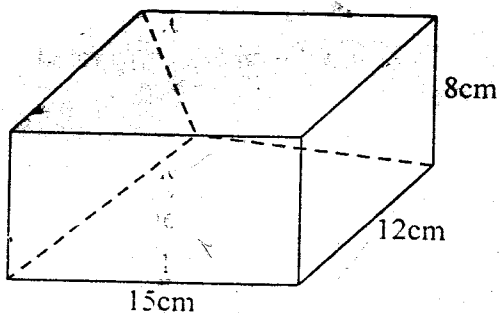
- A. 15cm
- B. 30cm
- C. 36cm
- D. 48cm

17. Work out

$$5 - 2\frac{4}{7}$$

- A. $2\frac{4}{7}$
- B. $3\frac{3}{7}$
- C. $3\frac{4}{7}$
- D. $2\frac{3}{7}$

18. What is the volume of



- A. 1440cm^3
- B. 96cm^3
- C. 120cm^3
- D. 1440cm^2

19. How many prime numbers are there between 20 and 40

- A. 5
- B. 3
- C. 4
- D. 2

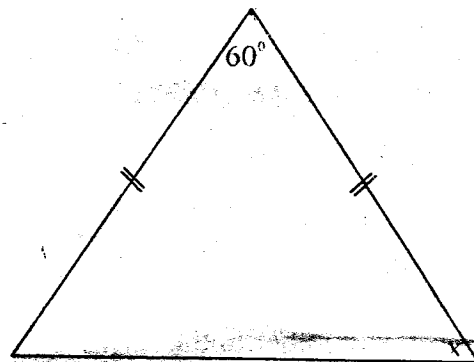
20. Find the highest common factor of 36, 48, and 54

- A. 432
- B. 9
- C. 4
- D. 6

21. A rectangular field measures 28m long and 20m wide. What distance did Kamau cover when he ran round the field twice

- A. 96
- B. 192
- C. 48
- D. 56

22. Find the value of angle x

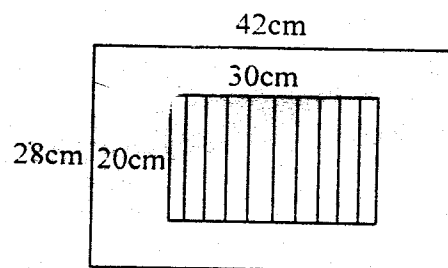


- A. 120
- B. 180
- C. 60
- D. 130

23. The area of a square is 196cm^2 . Find its perimeter

- A. 14cm
- B. 28cm
- C. 12cm
- D. 56cm

24. What is the area of the unshaded region in the given figure



- A. 600cm^2
- B. 576cm^2
- C. 328cm^2
- D. 1176cm^2

25. Work out

$$3\frac{2}{3} - 1\frac{7}{9} =$$

- A. $2\frac{1}{9}$ B. $2\frac{8}{9}$
 C. $1\frac{8}{9}$ D. $3\frac{4}{9}$

26. Change 0.025 as a fraction in its simplest form

- A. $\frac{25}{100}$ B. $\frac{1}{40}$
 C. $\frac{25}{100}$ D. $\frac{1}{4}$

27. A cashier deposited sh 6500 in a bank every day. How much did he deposit in the month of march last year

- A. 201500 B. 201000
 C. 200,500 D. 195,000

28. What is the value of x in the magic square below

9	8	2
6	x	
4	6	9

- A. 14 B. 5
 C. 8 D. 13

29. Kiamokama primary had 1200 pupils. If 40% are boys how many girls are there in the school

- A. 200 B. 720
 C. 1000 D. 480

30. Which one is a reflex angle

- A. 1250° B. 75°
 C. 175° D. 315°

31. Which statement below is true

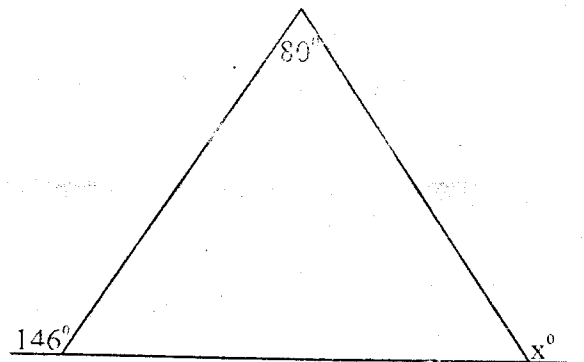
- A. $\frac{1}{3} < \frac{1}{8}$ B. $0.4 = 40\%$
 C. $\frac{3}{4} > 75\%$ D. $0.5 < 50\%$

32. What is the value of

$$1\frac{1}{9} \div 2\frac{1}{12} =$$

- A. $\frac{8}{15}$ B. $\frac{4}{5}$
 C. $\frac{7}{15}$ D. $1\frac{7}{8}$

33. What is the size of the angle marked x in the figure



- A. 126 B. 34
 C. 114 D. 61

34. What is the circumference of a circle whose radius is 56cm

- A. 352cm B. 308cm
 C. 154cm D. 176cm

35. What is the difference between 100 and 62 in roman numeral

- A. IVIII B. LXIII
 C. XLIII D. XXXLIII

36. Work out

Litres	dl
3	8
x	4

- A. 14l 3dl
 B. 14l 2dl
 C. 12l 2dl
 D. 15l 2dl

37. What is $\sqrt{\frac{9}{144}}$

- A. $\frac{3}{12}$ B. $\frac{24}{12}$
 C. $\frac{25}{12}$ D. $\frac{1}{12}$

38. Work out the following

- $(5\frac{2}{3})^2$
 A. $11\frac{1}{3}$ B. $5\frac{2}{3}$
 C. $15\frac{1}{3}$ D. $32\frac{1}{9}$

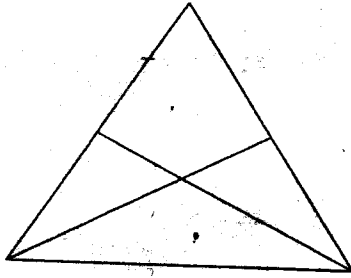
39. Arrange in ascending order

- $\frac{2}{5}, \frac{2}{3}, \frac{1}{2}, \frac{3}{8}$
 A. $\frac{2}{3}, \frac{1}{2}, \frac{2}{5}, \frac{3}{8}$
 B. $\frac{3}{8}, \frac{2}{5}, \frac{2}{3}, \frac{1}{2}$
 C. $\frac{2}{5}, \frac{1}{2}, \frac{3}{8}, \frac{2}{3}$
 D. $\frac{3}{8}, \frac{2}{5}, \frac{1}{2}, \frac{2}{3}$

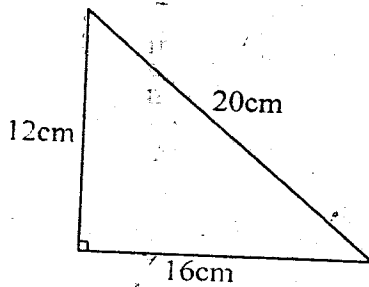
40. Work out

$4 + 1.003 + 2.75 + 0.6 =$

- A. 83.53 B. 4.753
 C. 8.353 D. 4.357
41. A sports meeting started at 10.50 am and took 4 hr 20 min. At what time did it end?
 A. 3.10 pm B. 5.10 pm
 C. 4.30 pm D. 6.30 pm
42. How many triangles are in the figure below



- A. 12 B. 8
 C. 6 D. 5
43. An odd number plus an even number gives
 A. odd even number
 B. prime number
 C. odd number
 D. even number
44. Calculate the area of the following triangle



- A. 320cm^2 B. 96cm^2
 C. 160cm^2 D. 192cm^2

45. Round off 9864 to the nearest thousand

- A. 10,000 B. 9800
 C. 9000 D. 9900

46. Work out

$0.5 \times 20 =$

- A. 10 B. 25
 C. 100 D. 20.5

47. How many days are there in the last three months of the year

- A. 89 B. 92
 C. 91 D. 90

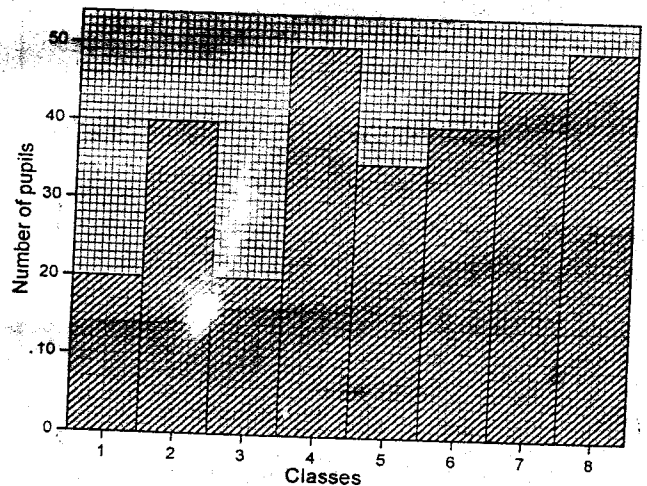
48. Find the perimeter of a square whose side is 24cm

- A. 6cm B. 48cm
 C. 96cm D. 36cm

49. A farm had 15 cows. If each day they produce a total of 270 litres of milk how many litres of milk does each cow produce

- A. 18 litres B. 285 litres
 C. 255 litres D. 4050 litres

50. The graph below shows the number of pupils in a Nyantaro primary from grade one to standard 8



How many pupils are there in upper primary

- A. 225
 B. 220
 C. 85
 D. 305