Name _____ **Assessment No.** _____

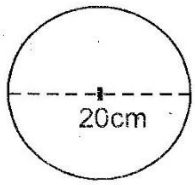
School _____ **Date** _____

Instructions: **This paper consists of two sections A and B.** **TIME: 2HRS**

SECTION A: (20mks)

1. What is the largest 6 digit numbers written in words that can be formed using the symbols 4, 2, 0 8 3 and 6?
   A. Four hundred and twenty thousand eight hundred and thirty six
   B. Eight hundred and sixty four thousand three hundred and twenty
   C. Eight million sixty four thousand three hundred and twenty
   D. Two hundred and three thousand four hundred and sixty eight
2. In a certain country, the population was **38898756**. What was the population to the nearest ten thousands?
   A. 38900000
   B. 38890000
   C. 38899900
   D. 38898800
3. What is **60400502** written in words?
   A. Six million four hundred thousand five hundred and two
   B. Sixty million four thousand five hundred and two
   C. Sixty million four hundred thousand five hundred and two
   D. Sixty million forty thousand five hundred and two
4. What is the value of;
   $14 + 6 \times 4 - 24 \div 4$?
   A. 74 B. 14
   C. 3.5 D. 32
5. Divide 34136 by 17
   A. 2008 B. 208
   C. 20008 D. 28
6. What is the smallest number that can be divided by 12, 18 and 27 without a remainder?
   A. 36 B. 108
   C. 5832 D. 3
7. Soda bottles are packed in crates each containing 24 bottles. A shopkeeper had 439 bottles of soda which she packed in crates. How many more bottles of soda must she buy so that all the crates are full?
   A. 18 B. 7
   C. 17 D. 6
8. The area of a square is 3844cm^2. What is the length of each side of the square?
   A. 67cm B. 961cm
   C. 1922cm D. 62cm
9. What is the next number in the pattern below 4, 9, 25, 49, 121, 169, ___?
   A. 289 B. 256
   C. 225 D. 196
10. What is the square root of $6\frac{1}{4}$?
    A. $39\frac{1}{16}$ B. $2\frac{1}{2}$
    C. $12\frac{1}{2}$ D. $36\frac{1}{16}$
11. The fractions $\frac{4}{9}, \frac{3}{7}, \frac{2}{5}$ and $\frac{1}{2}$ are to be arranged from the smallest to the largest. Select the correct order.
    A. $\frac{1}{2}, \frac{2}{5}, \frac{3}{7}, \frac{4}{9}$ B. $\frac{1}{2}, \frac{4}{9}, \frac{3}{7}, \frac{2}{5}$
    C. $\frac{2}{5}, \frac{3}{7}, \frac{4}{9}, \frac{1}{2}$ D. $\frac{2}{5}, \frac{4}{9}, \frac{3}{7}, \frac{1}{2}$

12. What is the circumference of the figure below? (Take $\pi = 3.14$)



A. 314cm B. 31.4cm
C. 628cm D. 62.8cm

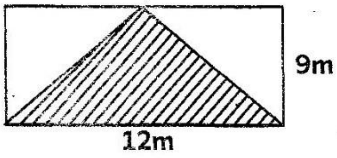
13. Add $\frac{2}{3}$ to the difference of $4\frac{1}{4}$ and $2\frac{1}{6}$

A. $2\frac{3}{4}$ B. $5\frac{3}{4}$

C. $7\frac{3}{12}$ D. $2\frac{1}{12}$

14. What is 0.84695 rounded off to the nearest thousandths.
A. 0.845 B. 0.847
C. 0.848 D. 0.846

15. Find the area of the shaded part in the figure below.



A. $108m^2$ B. $42m^2$
C. $54m^2$ D. 108m

16. Grade 7 learners were learning about division of decimal. One leader from a group evaluated the following problem. 38.4 ÷ 0.12. What was his correct answer?
A. 0.032 B. 32
C. 0.32 D. 320

17. What is the value of $6\frac{3}{8} \div 2\frac{1}{4}$?

A. $4\frac{1}{8}$ B. $14\frac{11}{32}$

C. $8\frac{5}{8}$ D. $2\frac{5}{6}$

18. The area of a triangle is $96cm^2$. If its base is 12cm, what is its height?
A. 8cm B. 20cm
C. 16cm D. 24cm

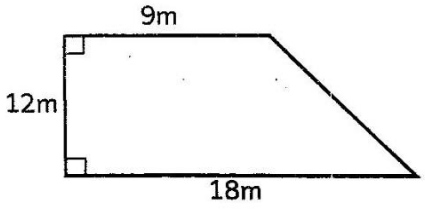
19. What is the value of **p** in the equation below?

$\frac{3p-3}{4} - 1\frac{3}{4} = 2\frac{1}{2}$?

A. $2\frac{19}{20}$ B. $6\frac{2}{3}$

C. 1 D. 4

20. The figure below represents a vegetable garden.



What is the perimeter of the garden?
A. 60m B. 51m
C. 54m D. 39m

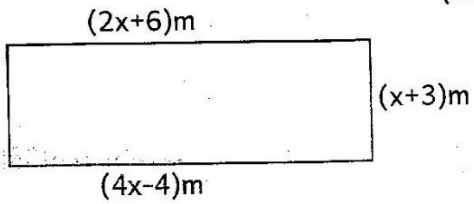
SECTION B: (80mks)

Attempt all the questions in the spaces provided

21. Work out the following problem
1042 + 980 ÷ 140 - 31 x 4 (4mks)

22. What is the difference in the value between the L.C.M of 8 and 12, and the G.C.D of 36 and 54? (4mks)

23. What is the area of the rectangle below? (4mks)



24. Work out the following problem; (4mks)

$$\frac{3.64 \times 7.5}{15}$$

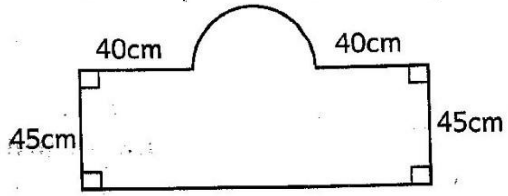
25. A circular wheel of radius 35cm made 10000 revolutions. How many kilometres did it cover? (4mks)

26. Katana bought **t** plates at Sh.50 each. He spent not more than Sh.1200 buying all the plates.

(a). Form an inequality to represent the information (2mks)

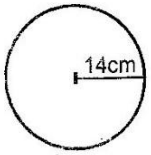
(b). Solve an inequality to find the value of **t** (2mks)

27. In the figure below, the diameter of the semi-circle is 21cm.

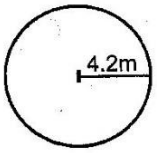


What is the perimeter of the figure? (4mks)

28. Work out the circumference of the circles below. (Take $\pi = \frac{22}{7}$)

(a). 

(4mks)

(b). 

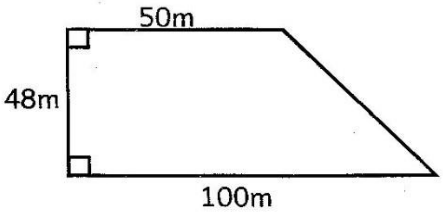
(4mks)

29. Work out the problems below

(a). $\sqrt{4\frac{89}{484}}$ (4mks)

(b). $\left(10\frac{1}{4}\right)^2$ (4mks)

30. The figure below represents Njeri's vegetable garden



What is the area of the garden in hectares? (4mks)

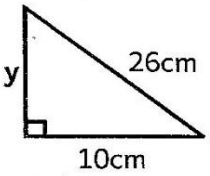
31. A publishing company sold books worth Sh.721875. If one book costs Sh.385, how many books did the company sell? (4mks)

32. Simplify each of the following

(a). $\frac{1}{4}(24x+28y) + \frac{1}{3}(9x-6y)$ (4mks)

(b). $\frac{3}{7}(21m + 42n) + \frac{5}{6}(18m - 18n)$ (4mks)

33. Find the measure of the side marked by letter **y**

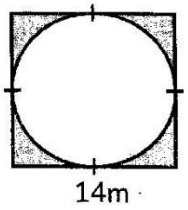


hence find the area of the triangle (4mks)

34. The distance between Jared's home and school is 7HM 8Dm 6m. Jared goes to school in the morning and returns in the evening. What distance does he cover in 5 days? (4mks)

35.(a). A circular fish pond has an area of 1386m^2. Find the radius of the fish pond. (4mks)

(b). Find the area of the shaded part (4mks)



(c). A cube has a volume of 2.7m^3. What is the volume of the cube in cubic centimetres? (4mks)