Name _____ Assessment No. _____

School _____ Date _____

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

SECTION A: (20 MARKS)

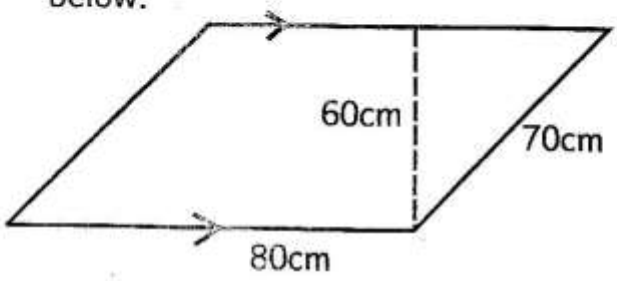
1. Write the figure below in words.
4200 201

A. Forty two hundred thousand two hundred and one
B. Four million two hundred thousand and one
C. Four million two hundred and one
D. Four million two hundred thousand two hundred and one

2. What is the place value of digit **8** in the product of **1.06** and **3.8**?

A. Tenths
B. Hundredths
C. Thousandths
D. Ones

3. Calculate the area of the figure drawn below.



A. 4800cm²
B. 4200cm²
C. 5600cm²
D. 2400cm²

4. **Work out;**

$$\sqrt{7\frac{1}{9}} \div \left(\frac{2}{3}\right)^2 =$$

A. 16
B. 6
C. 12
D. 14

5. **Work out;**

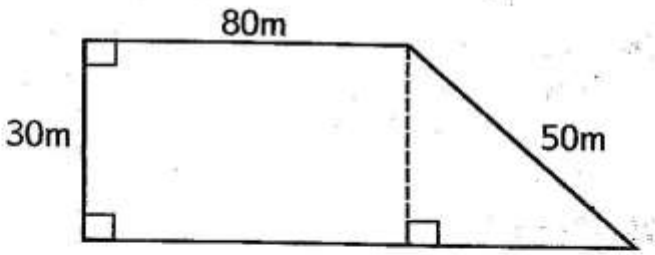
$\sqrt{12.96} + \sqrt{6.25} =$

A. 3.6
B. 6.1
C. 2.5
D. 19.21

6. A car travelled a distance of **180km** at an average speed of **40km/hr**. How long did the journey take?

A. $4\frac{1}{3}$hrs
B. $3\frac{3}{4}$hrs
C. $4\frac{1}{2}$hrs
D. 3hrs

7. Find the perimeter of the figure below



A. 260m
B. 308m
C. 240m
D. 280m

8. **Work out;**

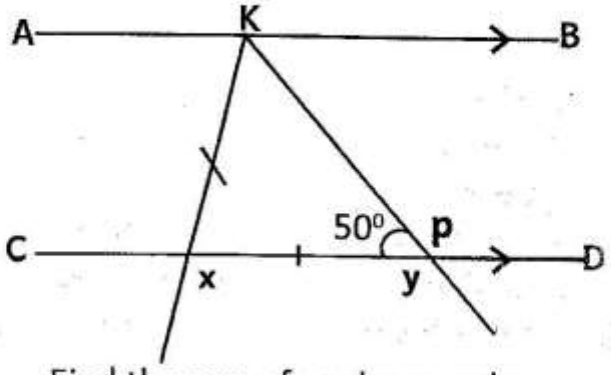
$\frac{25 \times 0.09}{0.05 \times 3} =$

A. 15
B. 1.5
C. 0.15
D. 0.015

9. What is **34136** divided by **17**?

A. 208
B. 2008
C. 28
D. 20008

10. **AB** is parallel to **CD**. Angle **KPC** is 50°



Find the sum of angles **x** and **y**

A. 130°
B. 210°
C. 230°
D. 180°

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11. Write the following fractions in a descending order.

$\frac{4}{5}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$

A. $\frac{2}{3}, \frac{4}{5}, \frac{3}{4}, \frac{5}{6}$ B. $\frac{3}{4}, \frac{2}{3}, \frac{5}{6}, \frac{4}{5}$

C. $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}$ D. $\frac{5}{6}, \frac{4}{5}, \frac{3}{4}, \frac{2}{3}$

12. Find the product of the next two numbers in the series.

81, 49, 25, ____, ____

A. 10 B. 9 C. 4 D. 25

13. Convert $\frac{3}{8}$ into a decimal correct to 2 decimal places.

A. 0.37 B. 0.38

C. 0.28 D. 0.375

14. How many groups of ten would represents the value of the digit 4 in the number 14752?

A. 40 B. 4000 C. 400 D. 4

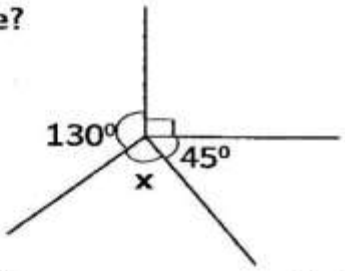
15. Solve the equations for X

$$\frac{x}{2} + \frac{x+1}{4} = 4$$

A. 1 B. $5\frac{2}{3}$

C. 2 D. 5

16. What is the value of X in the following figure?



A. 95° B. 135°

C. 265° D. 85°

17. Convert 0025h into a.m/p.m clock system.

A. 12.25p.m B. 12.25am

C. 24.25am D. 24.25pm

18. What is the product of $3\frac{1}{4}$ and $5\frac{1}{2}$?

A. $8\frac{3}{4}$ B. $\frac{13}{22}$

C. $17\frac{7}{8}$ D. $2\frac{1}{4}$

19. Evaluate the following problem.

38.4 ÷ 0.12

A. 0.032 B. 0.32

C. 32 D. 320

20. A trader had 25 trays of if he sold each tray eggs at Sh.420, how much money did he receive altogether?

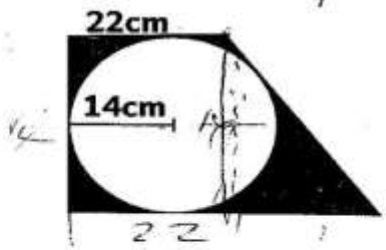
A. Sh. 9875 B. Sh. 10500

C. Sh. 11250 D. Sh. 445

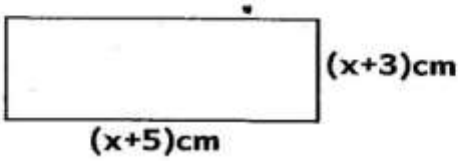
SECTION B: (80MARKS)

Answer all the questions in the spaces provided

21. Find the area of the shaded part in the figure below. ($\pi = \frac{22}{7}$) (6mks)



22. The perimeter of the rectangle below is 52cm.



(a). What is the value of x? (4mks)

(b). Calculate the area of the rectangle. (4mks)

23. A company employed 452 workers to do a certain job. At the end of the job, the workers were paid a total of Sh.472340. How much money did each worker receive if they were paid the same amount of money? (4mks)

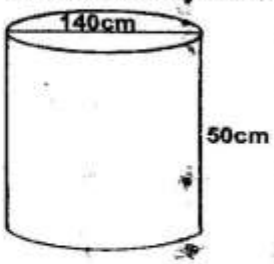
24. **Work out;**
$85 \times 120 \div 40 + 35$ (4mks)

25. Japhet was riding a bicycle. The radius of the wheel is 28cm

(a). Calculate the circumference of the wheel ($\pi = \frac{22}{7}$) (3mks)

(b). Work out the distance he covers when the wheel makes 10000 complete revolutions. (Your answer should be in km) (2mks)

26. A company packed juice in a cylindrical tank as shown below.



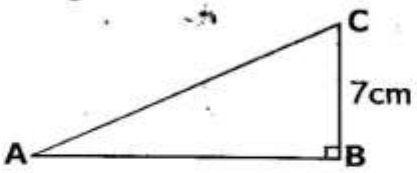
(a). Find the volume of the cyclinder. (4mks)

(b). Work out the capacity of the cylinder above in litres. (4mks)

27. Mwendwa bought a car worth Ksh.2300000 and later sold it for Ksh.1955000. Calculate the percentage loss Mwendwa incurred. (4mks)

28. A circular fishpond has an area of 1386m². Find the radius of the fish pond. (4mks)

29. The figure below represents a right angled triangle **ABC**. The area of the triangle is 84cm² and side **BC=7cm.**



What is the length of side **AC**? (4mks)

30. Find the difference between the largest and the smallest numbers formed by the digits 6, 1, 0, 7 and 9. (4mks)

31. Katana bought **X** oranges from the market. The number of oranges he purchases was more than 5 and less than 12.

(a). Form a compound inequality to represent the information. (4mks)

(b). Draw a number line and illustrate the inequality. (4mks)

32. Solve the following equation. (4mks)

$\frac{2}{5}(n+2) - 6 = 0$

33. During an Art and Craft lesson, learners made a board in the shape of a regular polygon. They measured one of the interior angles as 120°.

(a). Calculate the number of sides of the board (3mks)

(b). Name the regular polygon. (1mk)

34. A mobile service provider charges money transactions as shown in the table below.

Transaction Range		Charges	
Minimum	Maximum	Sending	Withdrawal
Sh	Sh	Sh	Sh
1	50	free	N/A
51	100	6	10
101	500	7	15
501	1000	12	25
1001	1500	22	28
1501	2500	32	30
2501	3500	51	55
3501	5000	56	67

Mary's fare from school to her home is Ksh.2500. Her father used the mobile service provider to send the money to her teacher and included the withdrawal charges. Determine the amount of money Mary's father used in the transaction. (6mks)

35. Kamau designed an ornament in the shape of a triangle. The vertices of the ornament were labelled **A**, **B** and **C**. The triangular shape **ABC** was such that angle **ABC** = **60°**, **BC**=6cm and **AB=7cm**

(a). Using a ruler and a pair of compasses only, construct a triangle to represent the ornament. (4mks)

(b). Measure the size of angle **BAC**. (1mk)