KCPE ASSESSMENT ONE

STANDARD EIGHT

FIRST TRIAL - 2020

TIME: 2HRS

MATHEMATICS

READ THESE INSTRUCTIONS CAREFULLY

1. You have been given this question booklet and a separate answer sheet. The question paper contains 50 questions.
2. Do any necessary rough work in this booklet.
3. When you have chosen your answer, mark it on the **ANSWER SHEET**, not in this question booklet.
4. Use an ordinary pencil only.
5. Make sure you have written on th

6. By drawing a dark line inside the the brackets mark your full Index Number (i.e. School Code Number and the three near the top of the answer sheet.
7. Do not make any marks outsjd
8. Keep the sheet as clean

9. For each of the questions 1-50 [ransyereres of ys ye letered **A,B,C,D.** In each case only **ONE** of the four answers is correct. Choose the correct answer.
10. On the answer sheet the correct answer is to be shown by drawing a dark line inside the box in which the letter you have chosen is written.

Example:•

In the question paper.

4. Change three thousand hectometres into kilometres

    A. 3
    8.300
    C.30
    D. 0.3

The correct answer is **B. (300).**

On the answer sheet

IAJ [PI ICJ DJ   **II** IAJ IEl ICl IDl   **E** IA1 IB) IC1 ID1   E} IA1 (B1 IC1 **D1**

In the first set, the box with the letter **B** printed in it is marked.

11. Your dark line **MUST** be within the brackets.

12. For each question **ONLY ONE** bracket is to be marked in each of four brackets.

This question paper consists of 8 printed pages.

001 - 2020

MATHEMATICS

1. Which one of the following numher is **twelve million one hundred and tv thousand and twelve** in symbols?

   A. 12120012
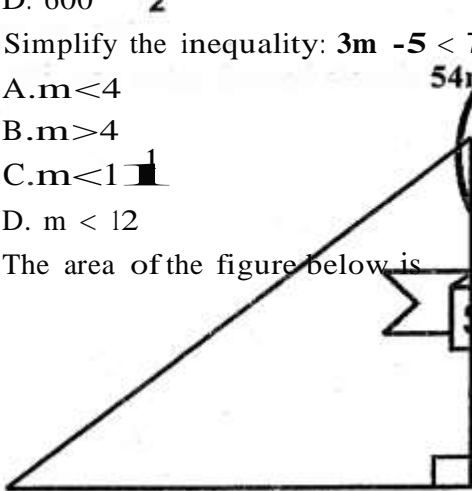
   B. 12012012

   C. 12102012

   D. 12102102

2. What is the total value of digit **6** in the number **105673?**

   A. Hundreds

   B. 6000

   C. Thousands

   D. 600

3. Simplify the inequality: **3m -5** < 7

   A. m<4

   B. m>4

   C. m<1

   D. m < 12

4. The area of the figure below is

   54m²

   9m

   Find its perimeter.
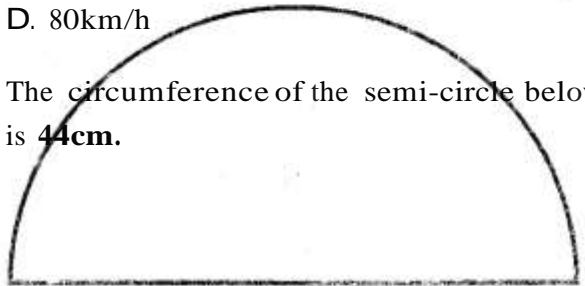
   A. 12m

   B. 15m

   C. 21m

   D. 36m

5. The average weight of **5** packets is **3.2kg.** The average weight of four of the packets is **3.1kg.** What is the weight of the fifth packets?

6. A car travelled **200m** in 5 seconds. What is the speed in **km/h?**

   A. 14.4km/h

   B. 40km/h

   C. 144km/h

   D. 80km/h

7. The circumference of the semi-circle below is **44cm.**

   Calculate its diameter.

   A. 28

8. The marked price of a T.V set is **Shs. 36000.** ire purchase price is 20% more than price. Timothy bought it on r ase. He paid **12** equal monthly uni~nts of **Shs. 2500.** How much deposit did he pay for the TV set?

   A. Shs. 13200

   B. Shs. 30000

   C. Shs. 36000

   D. Shs. 6000

9. What is the next number in the pattern below?

   11, 13, 16, 21, 28 ___   A. 37

   B. 39

   C. 41

   D. 38

   A

10.

6.6kg B.

3.6kg C.

3.3kg D.

2.7kg

001 - 2020

A meeting that took $4\frac{1}{2}$ hrs ended at **1.15p.m.** At what time did the meeting start?

A. 8:30p.m

B. 9:30a.m

C. 7:30a.m

D. 8:30a.m

STD 8   MATHEMATICS   PG 2

11. The figure below shows a quadrilateral **ABCD.** Line **DA= DB = BC.** Angle **ADB =80°.**

Find the measure of angle **CBD.**

A. 80°   B. 65°

C. 50°   D. 100°

12. Find the value of: $(q-t) \pm 2n$

$$n-q$$

given that $q=3, t=q-1, n=2q+1.$

A. 4

D. $15\frac{1}{5}$

13. A book has **24** pages. There ard-wt@lo#[rte **12960** words in the book. What is the average number of Words per line if there are **36** lines in each page?

A. 360

B. 540

C. 15

D. 10

14. Kamau is paid a basic salary **ofShs. 20,000.**

He is also given a commission of 8% for the sales he make. In a certain month he sold goods worth **Shs. 420000.** How much did he earn altogether?

A. Shs. 33600

B. Shs. 23360

15. What is the value of w in the equation.

$$\frac{2}{7}(21w-14) + \frac{2}{4}(8w-4)=6?$$

A. 1

B. 3

C. 5

D. 8

16. What is the sum of the HCF and LCM of **18, 54** and 72?

A. 18

B. 216

C. 198

D. 234

17. Evaluate the following;

$$\frac{1.8x\ 5,6x\ 0.9}{0.72\ x3.6}$$

A. 0.35

B. 3.5

5

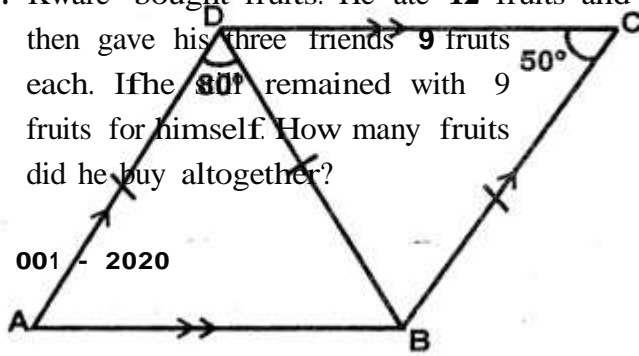of a square garden is **26.01m.** What measure of the length of the garden?

19. A family uses **500ml** packet of milk each day. How many litres of milk did the family use in the month of February 2011?

A. 14.5L

B. 140L

C. 14L

D. 14000L

C. Shs. 53600

D. Shs. 43600

20. Kware bought fruits. He ate **12** fruits and then gave his three friends **9** fruits each. If he **80?** remained with 9 fruits for himself. How many fruits did he buy altogether?

A. 48

B. 36

C. 57

D. 72

B. $3\frac{3}{4}$

C. $4\frac{3}{4}$

C. 35

D. 0.03

The area is the

A. 1m

B. 5.10m

C. 0.5 m

D. 0.5m

STEP FLYER

21. A shopkeeper had money in form of notes as shown in table below.

No of notes	2	4	8	5	15
Value of notes in Shs.	1000	500	200	100	50

He changed all the money into **Shs. 20 coins.** How many coins did he get?
A. 342
B. 343
C. 342.5
D. 6850

22. Arrange 3. $. } and 2 form the smallest to the largest.

A. $\frac{5}{8}\frac{3}{7}\frac{2}{3}\frac{1}{2}$ B. $\frac{3}{7}\frac{1}{8}\frac{5}{5}\frac{2}{\%}$

C. $\frac{3}{-}\frac{5}{8}\frac{1}{2}\frac{3}{\%}$ D. $\frac{1}{7}\frac{2}{2}\frac{3}{3}\frac{5}{7}\frac{}{9}$

23. The price of a **2kg** packet of wheat flour increased from **Shs. 120** to **Shs. 150**. What was the percentage increase?
A. 30%
B. 25%
C. 20%
D. 15%

24. **10** tonnes of maize were packe bags of **12.5kg**. How many

obtained altogether after pa 5 3 ; zzu

A. 80
B. 8000
C. 800
D. 125000

25. Karen poured **55** litres of water into a cylindrical container of diameter **50cm.** What was the depth of the water in the container? **(Take** # = $\frac{g}{}$
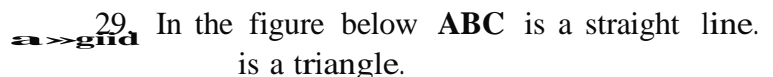A. 28cm
B. 24cm

27. In a meeting the ratio of men to women was 3:2. In the afternoon $\frac{2}{5}$ for women left the meeting. If **12** women left. How many men attended the meeting?
A. 18
B. 27
C. 36
D. 15

28. A boy cycled from home to marked at a speed of **24km/h** and took 30 min. He cycled back home the same distance at a speed of **16km/h,** how long did he take to travel from market to home?
A. 15 min

B. 1 hr

C. 45 min

D. $\frac{3}{2}$ min

29. In the figure below **ABC** is a straight line. is a triangle.

C. 14cm
D. 35cm

26. What is the value of:
$\frac{1}{6}$ f10-4x$\frac{1}{6}$ ±$\frac{1}{6}$?

What is the size of angle **DAB?**

A. 80°   B. 20°

C. 70°   D.

100°

30. The area of the curved surface of a cylinder

   A. 4

   B. 6

   C. 1

   D. 3

2

is 1452cm and the height is **22cm.**

22cm

What is the radius of the cylinder?

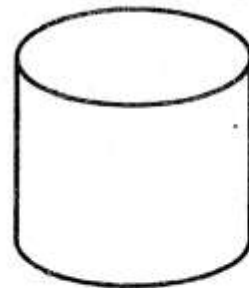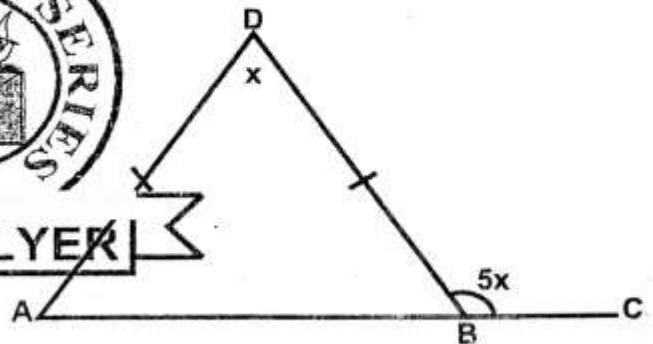A. 1.5cm   B. 21cm

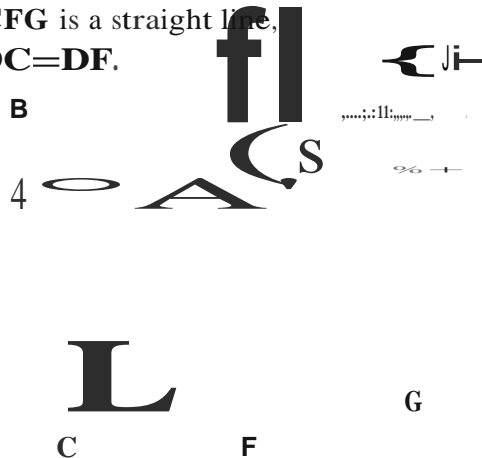C. 14cm   D. 10.5cm

DAB

STEP FLYER

31. In four years time Alice will be twice as old as her daughter and the sum of their ages will be **72** years. How old is the daughter now?
    A. 20 years
    B. 16 years
    C. 24 years

    D. 12 years

32. The scale of a map is **1:30000**. What is the actual length of a road drawn **5cm** on a map?
    A. 15km
    B. 6km
    C. 0.6km
    D. 1.5km

33. What is the place value of digit 3 in the product of **2.51** and **3.4?**
    A. Ones
    B. Tenths
    C. Hundredths
    D. Thousandths

34. In the figure below line **AB** is par **CE,** line **ACFG** is a straight line, $= 40°$ line **DC=DF**.

    What is the size of angle **DFG?**
    A. 140°
    B. 110°
    C. 70°
    D. 40°

35. **12** men can complete doing a certain job

36. Simplify:

    $203-9)+ 3(9x+12-3)$
    A. x +9
    B. 2x-9
    C. 5x + 11
    D. 5x- 11

37. The sum of two parallel sides of a tape: in is **32cm.** The perpendicular distance between **the** two parallel lines is **14cm.** Calculate its area.
    A. **448cm°**
    B. 214cm°
    C. 224cm?
    D. 112cm²

38. **Mr.** Magu bought the following items do a shop.
    - 3 bars of soap for Shs. 420.
    - 2-2kg packets of maize flour at Shs. 40
    We'g g of sugar @Shs. 120.
    ckets of biscuits @ **Shs. 45**.

    the items using Shs. 1000 note. balance did he receive?

    in **10** days. How many more men would be required if the same job is to be completed in 8 days?
    A.15   B.3
                  D. 4

C. Shs. 300

D. Shs. 280

39. Convert 12% into decimal.

A. 1.25

B. 12.5

C. 0.0125

D. 0.125

40. Kuria has **x** mangoes, Ann has s sore mangoes than Kuria while Maxin has tvie

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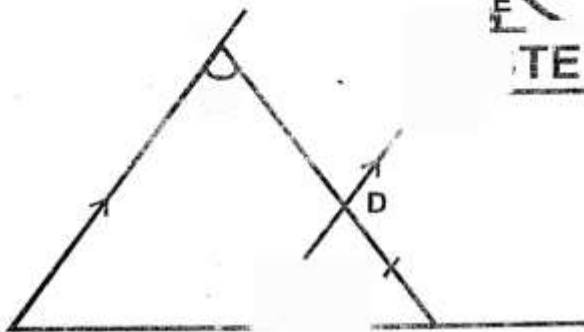as many mangoes as Ann. Which espresi below shows the total number of mangoes they all had?

A. 4x + 18

B. 4x + 12

C. 3x + 12

D. 3x + 6

allel to line
angle ABD

E

He paid for

How much

A. Shs. 320

B. Shs. 240

$\frac{1}{2}$

C. 2

41. Which one of the following statements is **not true** about a parallelogram?
A. Has two pair of parallel lines.
B. Diagonals are unequal.

C. Diagonals bisect at an angles of **90°**.

D. Opposite sides are equal and parallel.

42. The diagram below represents an open cylindrical tin.

0cm

Evans wrapped a piece of paper on the curved part. What is the area of the paper that was wrapped?

A. 154cm²   B. 308cm?
C. 880cm°   D. 1188cm²

43. What is the difference in the number and vertices of an open cuboid?
A. 4   B. 5
C. 6   D. 20

44. The chart below shows how a f his farm.

If **0.9** ha of the farm was used to grow maize. What was the size of the whole farm?

46. A trader sold an item for **Shs. 1200** making **20%** loss, how much would he have sold the item in order to make 30% profit?
A. Shs. 1500   B. Shs. 1560

C. Shs. 2150   D. Shs. 1950

47. Work out: **40 − 2 x(6 of 13) + 3 + 16**
A. 4   B. 18

C. 14   D. 28

48. Salima paid **Shs. 600** for a shirt after he was allowed a discount of **20%.** How much was the discount?

A. Shs. 120   B. Shs. 720
C. Shs. 750   D. Shs. 150

49. The table below shows the bus fare charged between town **A** and **E** in shillings.
A

50	B		
120	80	C	
60	100	30	D
	150	90	70	E

ra travelled from town E to town A via , w much did he pay?

20 s. 220   B. Shs. 210

. S s·——   D. Shs. 200

! ° 9ah below shows a journey of a im.Ga:r.l!s . hat was his average speed after resting?

240

A   h
.   a
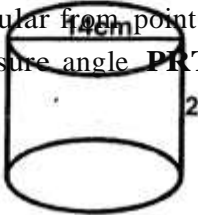7   B
.   .
5   7

.2ha C. 9 ha D. 6ha

45. Construct triangle **PQR**, line **PQ = 7cm**, **PR= 8.5cm** and angle **PQR = 65**. Drop a perpendicular from point **R** to meet line **PQ** at **T**. Measure angle **PRT**.
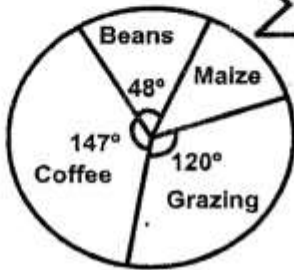

A. 48° B. 28°

C. 23° D. 90°

200

120

40

0
8am   9am   10am   11am   12pm   1pm
Time

A. 53km/h   B. 56km/h
C. 140km/h D. 70km/h

Beans
48° Maize
147° Coffee
120° Grazing

60