STD 6- YEAR 2020

MATHEMATICS

Time : 2 Hours

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. Which number is six million sixty six thousand and six

A. 6066.006 B. 6066600

C. 60606006 D. 60666

2. Work out the following

73469321 + 84963 + 8562 + 11345783

A. 84908629 B. 74908629

C. 73847529 D. 84897529

3. **Work out**

$2^1/_2 \times 7$

A. $1^4/_2$ B. $9^1/_2$

C. $14^1/_2$ D. $17^1/_2$

4. **Work out:**

4029041 - 73539=

A. 3965502 B. 3955402

C. 3955502 D. 3955520

5. The area of a square is 196cm². Find its perimeter.

A. 784cm B. 56cm

C. 49cm D. 14cm

6. Which of the following numbers is divisible by 8?

A. 4567128 B. 909183

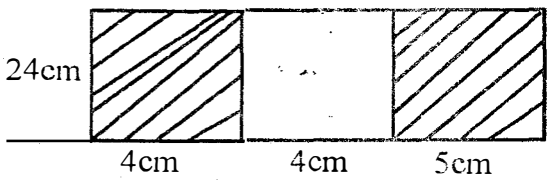
C. 41286 D. 59386

7. What is the sum of all prime numbers between 1 to 20?

A. 76 B. 78

C. 77 D. 92

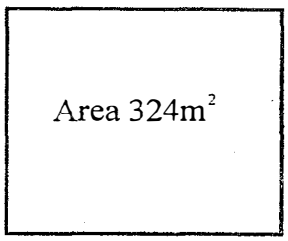
8. Find the area of the unshaded part.



A. 96cm² B. 120cm²

C. 312cm² D. 192cm²

9. Gesanda used a wire to fence the square plot below whose area is 324m². What was the length of the wire used?



A. 36m B. 72m

C. 324m D. 81m

10. **Simplify:**

$^{54}/_{63}$

A. $^5/_6$ B. $^4/_3$

C. $^8/_9$ D. $^6/_7$

11. Mutua left home for school at 6.45 am. He took twenty five minutes to get to school. At what time did he reach school

A. 7.00am B. 7.10am

C. 6.10 am D. 6.70am

12. Arrange the following from the smallest to the largest
$^1/_2$, 0.25, $^3/_4$, 0.05

A. $^3/_4$, $^1/_2$, 0.25, 0.05

B. $^3/_4$, 0.25, $^1/_2$, 0.05

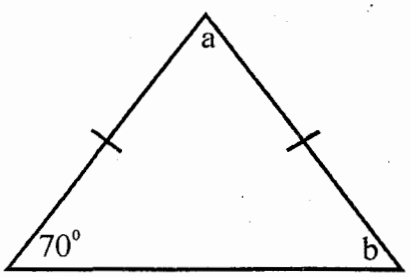
C. $^1/_2$, $^3/_4$, 0.05, 0.25

D. 0.05, 0.25, $^1/_2$, $^3/_4$

13. **Work out**
3 - 0.04=
A. 2.94 B. 3.96
C. 2.96 D. 3.04

14. 15c - 8 - 14c=5
A. 13 B. 40
C. 9 D. 3

15. Which statement is true about angles in the figure below?



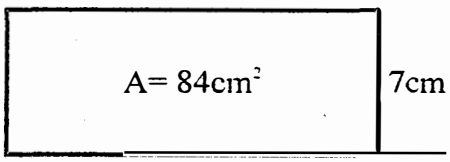
A. angles a + b equal to 140^0
B. angle b is equal to 70^0
C. angle b is equal to 40^0
D. angle a and b are equal

16. Find the G.C.D of 20, 30 and 50:
A. 5 B. 10
C. 300 D. 15

17. Which of the following numbers show the prime factorisation of 144?
A. 2 x 2 x 2 x 3 x 3
B. 2 x 2 x 4 x 3 x 3
C. 4 x 4 x 4
D. 2 x 2 x 2 x 2 x 3 x 3

18. **Work out:**
$\sqrt{289}$
A. $144^1/_2$ B. 17
C. $72^1/_4$ D. 30

19. The area of the figure below is $84cm^2$. Find the perimeter.



A. 31cm B. 588cm
C. 38cm D. 91cm

20. Change 0.025 as a fraction in its simplest form
A. $^{25}/_{100}$ B. $^1/_{40}$
C. $^{25}/_{100}$ D. $^1/_4$

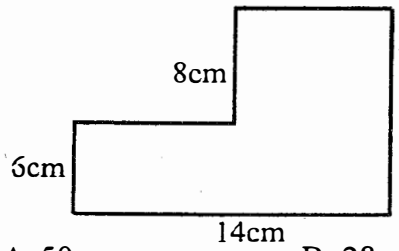
21. How many $^1/_4$kg packets can you make from $2^1/_2$kg of sugar?
A. 10 B. 8
C. 16 D. 12

22. Which is the next number in the series below?
5, 9, 13, 17, _____
A. 14 B. 21
C. 15 D. 16

23. The year 2008 was a leap year. When was the next leap year?
A. 2016 B. 2012
C. 2010 D. 2004

24. Change $8^9/_{11}$ into improper fraction
A. $^{11}/_{88}$ B. $^{11}/_{97}$
C. $^{88}/_{11}$ D. $^{97}/_{11}$

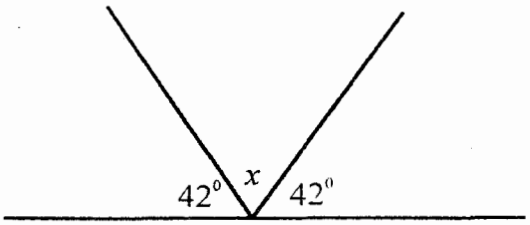
25. What is the perimeter of the figure below



A. 50cm B. 28cm
C. 42cm D. 56cm

26. Write 48 in roman numerals
A. LVIII B. XLIX
C. XLVIII D. XLIV

27. What is the size of the angle marked **X**



A. 110^0 B. 84^0

C. 96^0 D. 48^0

28. **Work out**

469 x 37

A. 17253 B. 16353

C. 17353 D. 17350

29. A rectangular field is 28m long and 20m wide. What is its area?

A. $560m^2$ B. $96m^2$

C. $48m^2$ D. $56m^2$

30. **Work out**

$(^5/_7)^2$

A. $^{50}/_{59}$ B. $^{22}/_{49}$

C. $^{10}/_{14}$ D. $^{25}/_{49}$

31. Siaya county has 12350 boys and 15975 girls. How many children are there in this county rounded off to the nearest thousand?

A. 28300 B. 29000

C. 32000 D. 28000

32. Kennedy was sent by her mother to buy the following items:

$2^1/_2$kg of sugar @ sh 60

3 loaves of bread @ sh 33

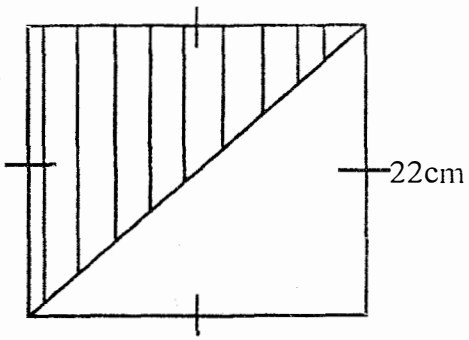
2 packets of sweets @ sh 25

He gave the shopkeeper sh 400, how much balance was he given?

A. Sh 99 B. Sh 10

C. Sh 1 D. Sh 101

33. Find the area of the shaded part.



A. 484cm B. 242cm

C. $242cm^2$ D. $484cm^2$

34. What is $^{108}/_{100}$ written as a decimal

A. 0.018 B. 0.8

C. 10.80 D. 1.08

35. **Work out**

$4\overline{)7 \text{ hours } 12 \text{ minutes}}$

A. 2 hours 48 minutes

B. 1 hours 3 minutes

C. 1 hour 48 minutes

D. 1 hour 78 minutes

36. Using the scale 1cm represents 2m. What will 5cm represent?

A. 6m B. 7m

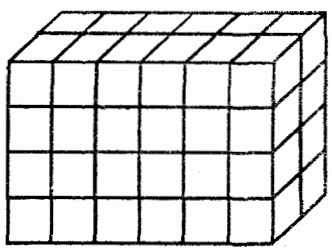
C. 10m D. 3m

37. A chair costs sh 590. How many chairs did the headmistress buy with sh 4720?

A. 8 B. 7

C. 9 D. 6

38. How many small cubes are used to make the stack below?



A. 48 B. 54

C. 38 D. 36

39. What is $42 \div {}^{1}/_{2}$=

A. 40 B. 84

C. 21 D. 44

40. What is the value of

$3^{1}/_{3} - 5^{2}/_{3} + 7^{3}/_{4}$=

A. $4^{7}/_{12}$ B. $5^{5}/_{12}$

C. $5^{7}/_{12}$ D. $3^{1}/_{2}$

41. Which of the following geometrical instrument can be used to measure an angle?

A. Protractor B. square

C. ruler D. pair of compass

42. What is the difference between the square of 9 and the square root of 256?

A. 16 B. 65

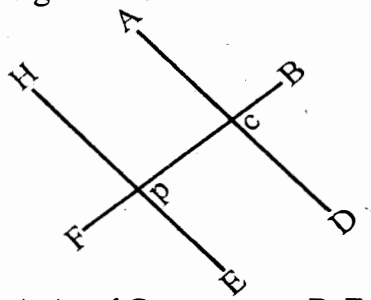
C. 33 D. 49

43. A meeting started at 8.30 am and took $2^{1}/_{2}$ hours. At what time did the meeting end?

A. 11:00p.m B. 10:30 a.m

C. 11:00a.m D. 10:30 p.m

44. Name the points of intersection in the figure below.



A. A and C B. F and E

C. P and C D. H and E

45. **Work out**

Shs	cts
472	60
+940	50

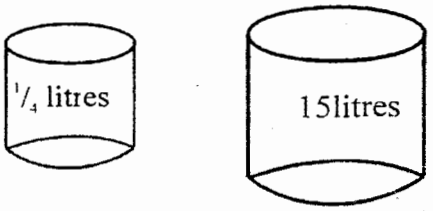
A. Sh 1431 10cts

B. Sh 1313 11cts

C. Sh 1412 10cts

D. Sh 1413 10cts

46. How many small cans will fill the big can



A. $3^{3}/_{4}$ B. 60

C. 15 D. 30

47. **Work out**

$^{3}/_{10} \div 4^{1}/_{2}$=

A. $^{1}/_{15}$ B. $1^{7}/_{20}$

C. 1.35 D. $^{1}/_{45}$

48. Nguguna travelled from Nakuru to Nairobi a distance of 480km in 6 hours. What was the speed in km/h

A. 486km/h B. 2880km/h

C. 474km/h D. 80km/h

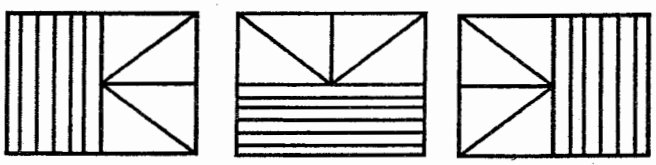
49. Which one of the following symbols will complete the statement below

An acute angle_____an obtuse

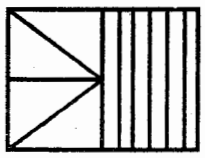
A. < B. >

C. = D. ≤

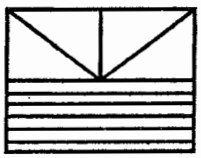
50. Which is the next pattern



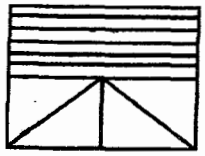
A.



B.



C.



D.