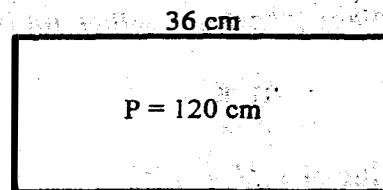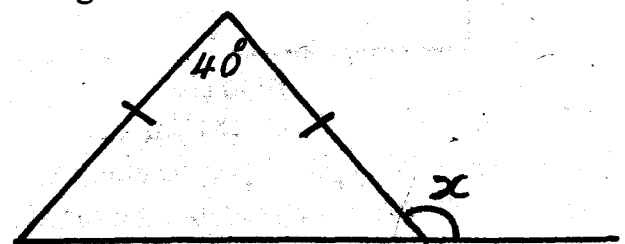# STD 6- 02 – 2020
MATHEMATICS

1. Which of the following is nine hundred and sixty thousand, six hundred and nine in symbols ?
   A. 960909
   B. 990606
   C. 960609
   D. 960906

2. What is the place value of digit 3 in 3268947 ?
   A. Hundred thousands
   B. thousands
   C. Ten thousands
   D. Millions

3. Round off 284923 to the nearest thousand
   A. 29000
   B. 285000
   C. 280000
   D. 284000

4. Which of the following number is divisible by 8?
   A. 1784
   B. 1258
   C. 8220
   D. 7281

5. What is the sum of the squares of 12 and 15?
   A. 225
   B. 369
   C. 275
   D. 305

6. Twenty schools were each given 241 books by the county government. How many books were given out altogether?
   A. 4820
   B. 4210
   C. 5220
   D. 6210

7. What is the total value of digit 8 in the number 2.9784 ?
   A. 0.8
   B. 0.08
   C. 0.0008
   D. 0.008

8. The perimeter of the rectangle below is 120cm. What is its area ?

   36 cm

   $P = 120$ cm

   A. 648 m^2
   B. 806 cm^2
   C. 864 cm^2
   D. 432 cm^2

9. What is the next number in the pattern below ?
   1, 4, 9, 16, _____
   A. 25
   B. 36
   C. 49
   D. 64

10. Find the square of $1^3/_2$?
    A. $1^7/_9$
    B. $2^1/_8$
    C. $3^1/_4$
    D. $2^7/_9$

11. What is the reciprocal of $1^1/_3$?
    A. $^4/_3$
    B. $^3/_4$
    C. $^2/_5$
    D. $^5/_2$

12. During a Sports day at Mashimoni Primary School, 126 loaves of bread were shared equally among 8 schools. How many loaves remained ?
    A. 6   B. 20
    C. 4   D. 18

13. What is the value of the angle marked X in the figure below ?

    A. 70^0 B. 100^0
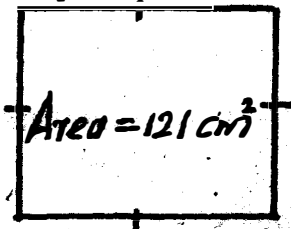   C. 110^0 D. 80^0

14. What value of 0.36 ÷ 0.06
    A. 60   B. 6
    C. 600   D. 0.6

15. What is the LCM and the GCD of 16, 24 and 32 ?
    A. 96   B. 88
    C. 112   D. 104

16. Susan had a piece of sugarcane measuring 8.4 cm. He cut it into pieces each measuring 2.1 cm. How many pieces altogether did she obtain ?
    A. 4   B. 8
    C. 2   D. 5

17. What is the value of $12\frac{1}{4} \div \frac{1}{2}$?
    A. $20\frac{1}{4}$
    B. $18\frac{1}{2}$
    C. $24\frac{1}{2}$
    D. $28\frac{1}{3}$

18. The table below shows the number of pupils in the lower classes in a certain school.

Class	Grade 1	Grade 2	Grade 3
Boys	26	21	16
Girls	18	15	28

During a school fundraiser, each boy contributed shs.50 while each girl contributed shs.20. How much money was contributed altogether ?
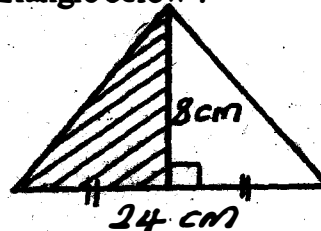   A. 3051
    B. 1220
    C. 3210
    D. 4370

19. The area of the square below is 121cm². What is its perimeter ?

Area = 121 cm²

    A. 242 cm   B. 30 cm
    C. 44 cm   D. 484 cm

20. In a class of 96 pupils, $\frac{2}{3}$ of the pupils are boys and the rest are girls. During a sports day, $\frac{1}{4}$ of the girls took part. How many girls did not take part?
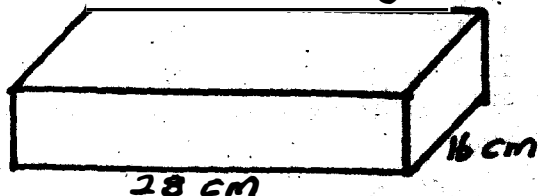   A. 24
    B. 8
    C. 18
    D. 6

21. The following fractions are to be arranged in an ascending order. Which one of the following is the correct order ?
    $\frac{3}{4}, \frac{6}{7}, \frac{4}{9}, \frac{2}{7},$

    A. $\frac{6}{7}, \frac{3}{4}, \frac{4}{9}, \frac{2}{7},$
    B. $\frac{2}{7}, \frac{4}{9}, \frac{3}{4}, \frac{6}{7},$
    C. $\frac{2}{7}, \frac{3}{4}, \frac{4}{9}, \frac{6}{7},$
    D. $\frac{3}{4}, \frac{2}{7}, \frac{6}{7}, \frac{4}{9},$

22. What is the area of the shaded part in the triangle below ?

8cm

24 cm

    A. 96cm²
    B. 54cm²
    C. 64cm²
    D. 48cm²

23. Mwalimu had Sh.3600. He gave $\frac{1}{6}$ of the money to his son and $\frac{1}{4}$ to his daughter. How much money was he left with?
    A. Sh.1500
    B. Sh.2400
    C. Sh.2100
    D. Sh.1200

24. What is the sum of $7\frac{2}{9}$ and $3\frac{1}{6}$?
    A. $10\frac{7}{18}$
    B. $9\frac{1}{18}$
    C. $11\frac{1}{7}$
    D. $15\frac{1}{6}$

25. What is 0.375 written as a fraction in its simplest form?
    A. $\frac{2}{7}$
    B. $\frac{50}{90}$
    C. $\frac{3}{8}$
    D. $\frac{2}{5}$

26. The scale used on a map is 1:200000. What is the length of a river whose actual length is 4.5 km on the map ?
    A. 1.5 cm
    B. 2.25 cm
    C. 1.7 cm
    D. 2.3 cm

27. The volume of the cuboid below is 5376cm² What is the measure of its height?

28 cm 16 cm

A. 14 cm   B. 21 cm
C. 25 cm   D. 12 cm

28. Owino covered 120km in 6 hrs. How many kilometers did he cover in 1 hour?
A. 30
B. 15
C. 20
D. 40

29. What is the value of x in $^2/_3 x = 48$?
A. 84
B. 72
C. 60
D. 58

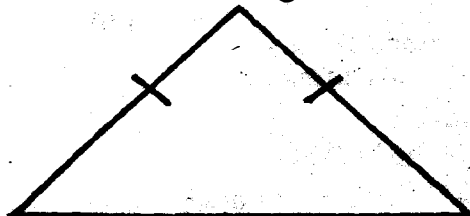30. What is the perimeter of a rectangle whose area is 2880 cm² and the width measures 48cm?
A. 108 cm
B. 120 cm
C. 112 cm
D. 216 cm

31. Work out:

Hrs	Min	Sec
6	12	20
x		5

A. 31 hrs 1min 40sec
B. 31 hrs 59min 10sec
C. 30 hrs 1min 40sec
D. 30 hrs 1min 50sec

32. Which one of the following statement is not correct about the triangle below?

A. Two angles are equal
B. All angles are equal
C. It is an iscosceles triangle
D. The sum of its interior angles is 180⁰

33. Divide 7$\overline{)36kg\ 610g}$
A. 5kg 130g
B. 6kg 130g
C. 5kg 230g
D. 5kg 230g

34. Muiltiply : 8.432 x 15
A. 108.42
B. 126.48
C. 148.25
D. 192.26

35. During a tree planting day, 3160 people participated. Each person planted 19 trees. How many trees were planted altogether?
A. 630020
B. 54030
C. 72460
D. 60040

36. Which one of the following is a prime number?
A. 53   B. 51
C. 49   D. 65

37. Simplify the fraction below: $^{36}/_{48}$
A. $^1/_3$ B. $^1/_2$
C. $^3/_4$ D. $^2/_5$

38. Solve:

Km	M	Cm
9	216	92
x		8

A. 73km 735m 36cm.
B. 73km 735m 36cm
C. 74km 736m 36cm
D. 73km 735m 35cm

39. In a certain country, there are 21590 men, 18960 women and twice as many children as men. How many people are there altogether?
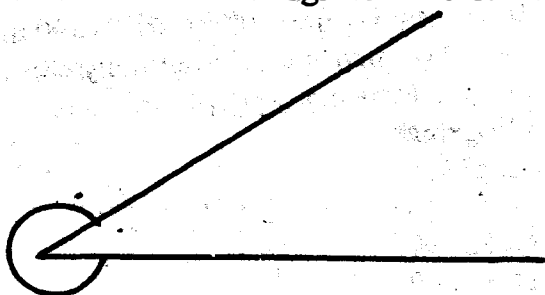A. 42180
B. 62140
C. 83730
D. 94260

40. Convert $2^3/_4$ into an improper fraction.
A. $^4/_{11}$
B. $^{11}/_4$
C. $^3/_8$
D. $^8/_3$

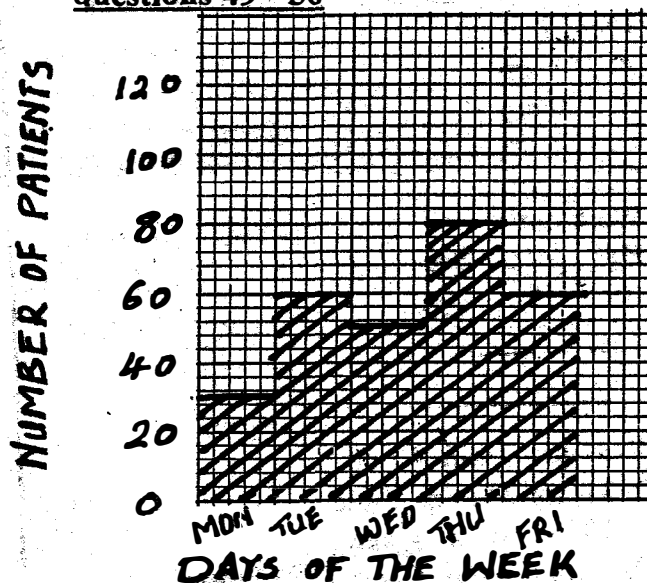41. What is the size of the angle marked y in the figure below ?

A. 30⁰   B. 70⁰

C. 50⁰   D. 45⁰

42. During a certain harambee, sh 96800 was collected. How many people contributed if each one gave out sh. 440 ?
A. 180
B. 220
C. 240
D. 360

43. What is $^2/_5$ converted into a decimal ?
A. 0.6
B. 0.45
C. 0.8
D. 0.25

44. Which one of the following is the largest 5 digit number that can be formed from the digits below ?
6 8 9 7 0
A. 90876
B. 97860
C. 98760
D. 96780

45. What is the name of the angle drawn below ?

A. Obtuse angle   B. Acute angle
C. Reflex angle   D. Right angle

46. A bag weighing 90kg lf maize was sub-divided into smaller portions each weighing 450g. How many portions were got ?
A. 400

B. 500
C. 150
D. 200

47. What is the volume of a cube measuring 12cm ?
A. 1440 cm³
B. 1728 cm³
C. 1880 cm³
D. 1620 cm³

48. Work out $9^1/_7 - 3^1/_6$
A. $6^2/_{31}$
B. $4^{41}/_{43}$
C. $5^{41}/_{42}$
D. $3^4/_5$

The graph below shows the number of patients who visited a certain health centre in five days. Use it to answer questions 49 - 50

49. On which two consecutive days did the highest number of patients visit the health centre ?
A. Monday and Tuesday
B. Wednesday and Thursday
C. Thursday and Friday
D. Tuesday and Friday

50. What is the difference between the highest and the least number of people who visited the health centre during the week.
A. 30
B. 40
C. 25
D. 50