

OPENER STD 6 TERM 2 2020

MATHEMATICS

NAME.....

Learner's Number

Gender Boy

Girl

County name County code

Sub county name Sub county code

School name School code

The grid below is to be filled by the teacher after marking the learner's work

	Level 1	Level 2	Level 3	Level 4
Numbers 1-15				
Measurement 16-23				
Geometry 24-25				

1. Which of the following numbers is three million, three hundred and thirty three thousand, three hundred and thirteen?
 A. 3 313 313 B. 3 333 313
 C. 3 333 330 D. 3 303 313

2. How many groups of ten are there in the total value of digit 6 in the number 7560321?
 A. 600 B. 6000
 C. 60 000 D. 83300

3. What is the G.C.D of 24, 36 and 72?
 A. 72 B. 144
 C. 24 D. 12

4. Work out: 484×78
 A. 37 752
 B. 37 572
 C. 47 752
 D. 37 725

5. Laureen and Douglas shared sh.1120. If Douglas got sh.350 more than Laureen, how much did Douglas get?
 A. Sh.910 B. Sh.770
 C. Sh.735 D. Sh.385

6. Which of the following numbers is divisible by 8?
 A. 79 960 B. 21 236
 C. 1 326 D. 45 218

7. Evaluate $\sqrt{2\frac{1}{4}}$
 A. $\frac{4}{9}$ B. $1\frac{1}{2}$
 C. $\frac{3}{4}$ D. $2\frac{1}{2}$

8. Find the next number in the pattern 2, 3, 5, 8, 13, 21, _____
 A. 23 B. 29
 C. 32 D. 34

9. What is $\frac{5}{8}$ as a decimal?
 A. 5.8 B. 1.6
 C. 0.625 D. 0.5128

10. What is the sum of the square of 8 and the square of 6?
 A. 196 B. 14
 C. 100 D. 28

11. What is the perimeter of the figure below?

A. 120 cm
 B. 144 cm
 C. 100 cm
 D. 72 cm

12. A carton contains 142 books. If each book weighs 125 grams, find the total weight of books in kilogram.
 A. 177.5 kg
 B. 17.75 kg
 C. 17 750 kg
 D. 1.775 kg

13. Work out: $4\frac{2}{3} - 2\frac{3}{4}$
 A. $2\frac{1}{12}$
 B. $\frac{11}{12}$
 C. $1\frac{11}{12}$
 D. $2\frac{11}{12}$

14. What is the shortest possible length of a wire from which equal pieces measuring 12cm, 15cm and 18cm can be cut?

- A. 180 cm
- B. 12 cm
- C. 3 cm
- D. 90 cm

15. Solve:

Kg	g
8	420
×	9

- A. 76 kg 870 g
- B. 72 kg 3780g
- C. 72 kg 780 g
- D. 75 kg 780 g

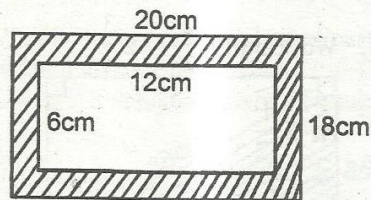
16. In 2017, Takei harvested 4676 bags of maize. This was 168 bags more than those he harvested in 2016. How many bags did he harvest in 2016?

- A. 4508
- B. 4676
- C. 168
- D. 4844

17. Find the height of a cuboid whose volume is 864cm^3 , length 12 cm and width is 9 cm.

- A. 72 cm
- B. 9 cm
- C. 8 cm
- D. 108 cm

18. Find the area of the shaded part.

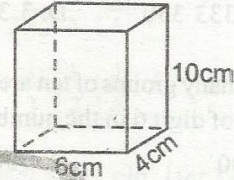


- A. 360 cm^2
- B. 288 cm^2
- C. 72 cm^2
- D. 288 cm

19. Lydiah shared 60 litres of milk among her visitors in a birthday party. If each visitor took $\frac{1}{4}$ of a litre, how many visitors attended the party?

- A. 30
- B. 25
- C. 15
- D. 240

20. What is the volume of the figure below?



- A. 240 cm^3
- B. 60 cm^3
- C. 240 cm^2
- D. 20 cm^3

21. Mae bought a radio for Sh.5200 and later sold it for sh.4800. What loss did he make?

- A. Sh.1600
- B. Sh.500
- C. Sh.400
- D. Sh.10, 000

22. Simplify:

$$4(3x + 2y) + 3(3x - 2y)$$

- A. $21x + 2y$
- B. $21x + 14y$
- C. $20x + 3y$
- D. $21x - 2y$

23. What is 2hrs 30mins before noon?

- A. 10:30am
- B. 2:30pm
- C. 9:30pm
- D. 9:30am

24. Work out: $3\frac{2}{3} - 1\frac{1}{2}$

- A. $5\frac{1}{6}$
- B. $1\frac{1}{6}$
- C. $2\frac{1}{6}$
- D. $2\frac{1}{2}$

25. A class six has 45 pupils, $\frac{3}{5}$ of the pupils are boys. How many boys are there?

- A. 27
- B. 9
- C. 45
- D. 18

26. A square plot has an area of 324 m^2 . Calculate the length of one of its sides.
- A. 81 cm B. 162 cm
C. 72 cm D. 18 cm

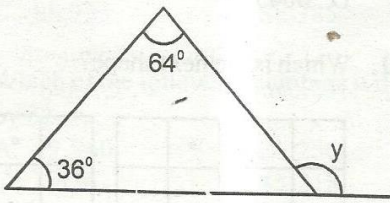
27. Write 210.6 as a fraction and simplify.
- A. $210 \frac{2}{5}$ B. $210 \frac{3}{5}$
C. 210 D. $21 \frac{3}{5}$

28. Solve $484 - 8.96 + 9.004$
- A. 466.036
B. 484.044
C. 4.384
D. 43.84

29. What is the reciprocal of $2 \frac{1}{5}$?
- A. $\frac{5}{11}$ B. $\frac{11}{5}$
C. $\frac{5}{8}$ D. $2 \frac{1}{5}$

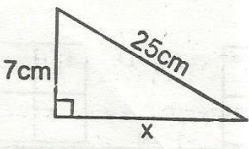
30. How many days are there from 4th June to 3rd July?
- A. 55 B. 31
C. 30 D. 29

31. Find the size of angle y



- A. 180° B. 100°
C. 72° D. 80°

32. The area of a triangle is 84 cm^2 . Find its base X.



- A. 12 cm
B. $6 \frac{18}{25}$
C. 18 cm
D. 24 cm

33. Divide $17\sqrt{34136}$
- A. 2 008 B. 208
C. 20 008 D. 28

34. Solve for x in $3x + 6 = 7$
- A. 1 B. 3
C. $\frac{1}{3}$ D. $4 \frac{1}{3}$

35. Christian has a mass of 37430g, Warui 40660g and Bulimo 41500g. What is their total mass in kilograms?
- A. 118.590 kg B. 11.59 kg
C. 119.59 kg D. 119590 kg

36. Work out
- | | |
|-------|-----|
| Sh | Cts |
| 24 50 | 4 0 |
| +104 | 8 0 |
| 13007 | 3 0 |
- A. Sh.15561 50 cts
B. Sh.15562 60 cts
C. Sh.15561 150 cts
D. Sh.15562 50 cts

37. The table below shows parcel charges

Parcels	Mass	Shs cts
Limit of 50kg	Up to 5kg	56 00
	Over 5kg upto 10kg	95 00
	Over 10kg upto 20kg	178 00
	Over 20kg upto 30kg	205 00

- Boaz sent three parcels weighing 5kg, 16kg and 20kg. How much did he pay altogether?
- A. Sh.205 B. Sh.412
C. Sh.439 D. Sh.478

38. A boy in standard five planted 0.875 of a plot with maize. What fraction remained?
- A. $\frac{1}{8}$
B. $\frac{7}{8}$
C. $\frac{5}{27}$
D. $\frac{1}{7}$

39. What is the sum of prime numbers between 90 and 100?

- A. 184 B. 281
C. 97 D. 190

40. If 2cm rep 48km, what length will be represented by 3cm?

- A. 32 km B. 78 km
C. 144 km D. 72 km

41. What is the value of:

$$\begin{array}{r} 3 \text{ hrs} \quad 50 \text{ mins} \\ \times \quad \quad \quad 7 \\ \hline \end{array}$$

- A. 26hrs 50mins
B. 21 hrs 350 mins
C. 24 hrs 50 mins
D. 25 hrs 50 mins

42. A meeting started at 9:45 am and ended at 12:45 pm. How long did the meeting take in minutes?

- A. 180 mins B. 300 mins
C. 3 mins D. 190 mins

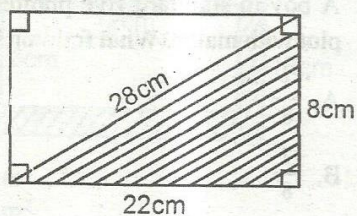
43. Which group of numbers is decreasing by 100?

- A. 821, 721, 521, 421
B. 945, 845, 745, 645
C. 60, 160, 260, 260, 360
D. 675, 665, 655, 645

44. Write 48 in Roman numerals.

- A. LXVIII B. XLIX
C. XLVII D. XLVIII

45. What is the area of the shaded part?



- A. 176 cm^2 B. 44 cm^2
C. 88 cm^2 D. 2464 cm^2

46. Arrange these fractions in ascending order

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

47. Jane is y years old. Her father is $2y$ years old while her mother is $2y - 5$ years old. Form an algebraic expression to represent their ages.

- A. $5y + 5$ B. $y + 2y - 5$
C. $5y - 5$ D. $4y - 5$

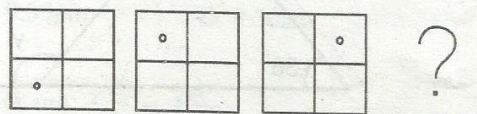
48. How many $\frac{1}{4}$ litre containers can fill 12 litres drum?

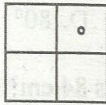
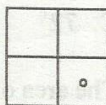
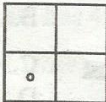
- A. 48 B. 24
C. $12\frac{1}{4}$ D. 3

49. How many grams are there in 6kg 45g?

- A. 64500 g
B. 6450 g
C. 645 g
D. 6045 g

50. Which is the next shape?



- A.  B. 
C.  D. 