MINISTRY OF EDUCATION

LITERACY AND NUMERACY ASSESSMENT (LANA) 2022

YEAR 7 NUMERACY ASSESSMENT

(Time Allowed: 60 minutes

(An extra 10 minutes is allowed for reading this paper.)

There are sixty questions in this Assessment. Answer <u>all</u> the questions.

	INSTRUCTIONS:
1.	Write your name and school in the boxes at the top of your Answer Sheet.
2.	On your Answer Sheet , draw a cross in the box next to the letter of the best answer.
	For example, if you select B as your answer, you should draw a cross in the box next to the letter B.
	33 A B C D
3.	If you change your mind, shade out your answer as shown, and place a cross in the box for your new answer.
	33 A B C D
4.	If you change your mind again and like your first answer better, shade out your second answer and tick (\checkmark) your first answer.
	For example: 33 A B C D D
5.	If your cross is too big for the box, or if you draw a circle, your answer will be marked <u>wrong</u> .
	cross is too big circles are not to be used
	32 A B C D D 34 A B C D D

Your supervisor or teacher can help you with these instructions but will NOT help you answer the questions.

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- 1. $\frac{1}{3}$ of \$60.00 is
 - A. \$30.00

B. \$20.00

C. \$10.00

- D. \$40.00
- 2. 6,278 rounded off to the nearest thousands is
 - A. 6,000

B. 6,002

C. 6,007

D. 6,008

- 3. 25% of 2 kg is
 - A. 50 kg

B. 5 kg

C. 500 g

D. 50 g

- 4. 50% of \$1000.00
 - A. \$0.50

B. \$5.00

C. \$50.00

- D. \$500.00
- 5. $\frac{7}{10}$ expressed as a percentage is
 - A. 70%

B. 7%

C. 0.7%

- D. 0.07%
- 6. Which of the following is a prime number?
 - A. 144

B. 121

C. 101

7. Calculate the following:

- A. 89
- C. 109

- B. 99
- D. 119

8. Mr Atu has 49 cows and sold 21. What fraction of the cows did he sell?

A. $\frac{28}{49}$

B. $\frac{21}{28}$

C. $\frac{4}{7}$

D. $\frac{3}{7}$

9. Simplify $\frac{24}{75}$

A. $\frac{12}{75}$

B. $\frac{3}{15}$

C. $\frac{8}{2^{11}}$

D. $\frac{12}{25}$

10. $\frac{29}{6}$ as a mixed number is

A. $2\frac{9}{6}$

B. $3\frac{11}{6}$

C. $4\frac{11}{6}$

D. $4\frac{5}{6}$

11.

What percentage of the bar graph is shaded?

A. 10%

B. 20%

C. 80%

D. 90%

12. The smallest fraction from the set below is;

$$\frac{1}{2}$$
, $\frac{2}{12}$, $\frac{3}{4}$, $\frac{6}{24}$

A. $\frac{6}{2^2}$

B. $\frac{2}{12}$

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

D. $\frac{1}{2}$

- 13. Change $\frac{2}{25}$ to percentage.
 - A. 2%

B. 8%

C. 20%

D. 80%

- 14. $\frac{2}{3} + \frac{3}{12} =$
 - A. $\frac{2}{12}$

B. $\frac{5}{12}$

C. $\frac{11}{12}$

D. $2\frac{1}{12}$

- 15. 6.46 + 0.88 =
 - A. 6.34

B. 7.34

C. 8.34

D. 73.4

- 16. 38.7 ÷ 10 =
 - A. 0.3870

B. 3.87

C. 38. 70

A. 0.8

B. 0.9

C. 1.9

D. 2

A. 1.142

B. 11.42

C. 114.2

D. 1,142

A. 5. 366

B. 536.6

C. 53.660

- D. 530.66
- 20. If 6 truck tyres cost \$2,544.00, how much will 1 tyre cost?
 - A. \$15,264.00

B. \$424.00

C. \$42.40

D. \$4.24

- 21. $\frac{5}{20}$ written as a decimal is
 - A. 0.25

B. 0.50

C. 0.52

- D. 5.20
- 22. Five men each planted 1,375 coconut plants in one week. How many coconut plants were planted altogether?
 - A. 1,380

B. 1,382

C. 6,875

D. 9,625

	23.	The lowest	common	multiple	(LCM)	of 8	and	12 is
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A. 72

B. 48

C. 36

D. 24

24. What will be the next prime number in the sequence?

A. 91

B. 93

C. 95

D. 97

25. What is 5,000 less than 10,500?

A. 5,000

B. 5,500

C. 10,000

D. 15,000

26. Luke has 42 mangoes. He shares them equally between 7 friends. Which mathematic sentence correctly shows how to work out the number of mangoes each friend will get?

A. 42 + 7

B. 42 - 7

C. $42 \div 7$

D. 42×7

27. A total weight of 1,224 kg of apples was distributed into 8 crates. What is the weight of apples in each crate?

A. 1,232 kg

B. 153 kg

C. 1,216 kg

D. 9,792 kg

28. Peni measured the length of some items as written below:

Book 20 cm Table 80 cm Duster 10 cm

What would be the total length of the items in metres?

A. 11.0 m

B. 10.1 m

C. 1.10 m

D. 1.01 m

29. If the area of a square is 81cm², its perimeter would be?



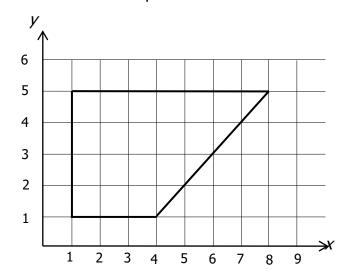
A. 9 cm

B. 18 cm

C. 20 cm

D. 36 cm

30. Find the area of the shape below.

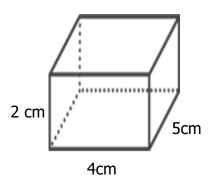


A. 10

B. 18

C. 20

31.



The total surface area of the rectangular prism above is

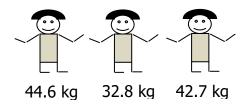
A. 16 cm²

B. 20 cm²

C. 38 cm²

D. 76 cm²

32. The diagram shows the weight of three boys



What is the total weight of the 3 boys?

A. 1,201 kg

B. 125.1 kg

C. 120.1 kg

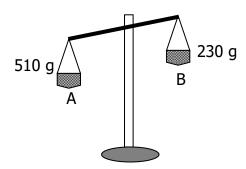
- D. 12.01 kg
- 33. Ten trucks each carried a cargo of 896.7 kg. What is the total weight of the cargoes?
 - A. 8,967 kg

B. 89.67 kg

C. 8.967 kg

D. 89670 kg

Use the diagram below to answer **Question 34**.



- 34. How many grams are you going to add on to B to balance the weight in A?
 - A. 740 g

B. 230 g

C. 510 g

- D. 280 g
- 35. Calculate the total weight of the objects.

A. 2,000 g

B. 1,950 g

C. 1,500 g

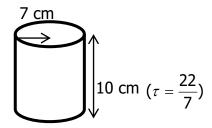
- D. 1,160 g
- 36. What is the correct unit for the volume of water in a cup?
 - A. I

B. ml

C. cm^3

D. m^3

37. The volume of the cylinder is



A. 1,540 cm³

B. 1,540 cm²

C. 70 cm³

D. 17 cm³

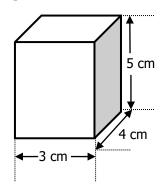
- 38. $\frac{1}{2}$ a Litre is
 - A. 1,000 ml

B. 500 ml

C. 250 ml

D. 100 ml

Use the diagram given below to answer Question 39.



- 39. Find the volume of the rectangular prism.
 - A. 12 cm³

B. 15 cm³

C. 50 cm³

- D. 60 cm^3
- 40. How many minutes are there in 2 hours 25 minutes?
 - A. 225 minutes

B. 25 minutes

C. 60 minutes

D. 145 minutes

A bus travels at 80 km/ hr. What time will it take the bus to travel 640 km?

41.

	A.	8 hrs	B.	80 hrs
	C.	560 hrs	D.	720 hrs
42.	How r	many months in a year have 31 days?		
	A.	7	В.	6
	C.	8	D.	5
43.		as \$200.00 and he gave \$20.00 to his wifeft with him?	e. Wha	t percentage of money
	A.	10%	В.	20%
	C.	90%	D.	180%
44.	Kissur	n divided \$24,000.00 equally amongst his	5 child	dren.
	How r	much money will each child get?		
	A.	\$4.80	В.	\$48.00
	C.	\$480.00	D.	\$4,800.00
45.		w bought 2 chickens for \$20.00 each. H		
	He th	en gave $\frac{1}{4}$ of his profit to his brother.	How m	uch of the profit was left?
	A.	\$7.50	В.	\$10.00
	C.	\$47.50	D.	\$50.00

46. Sera bought the following items from the shop:

Ice cream Ruler	Exercise Book	Chocolate Bar
\$1.50 50c	\$1.00	\$2.50

What change will she get if she gave the shopkeeper a \$10 note?

A. \$4.00

B. \$4.50

C. \$5.50

D. \$15.50

47. The temperature on Sunday was 67°F. On Monday it was 78°F. How much did the temperature increase between Sunday and Monday?

A. 9°F

B. 11°F

C. 19°F

D. 145°F

48. Twenty four degrees Celsius is also written as

A. 24° C

B. 24 C°

C. 24 DC

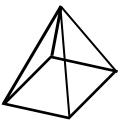
D. 24 C

49. Which statement below is true for acute angles?

A. Equal to a right angle.

- B. Bigger than a right angle.
- C. Bigger than 2 right angles.
- D. Smaller than a right angle.

50. The number of edges in a square pyramid is _____

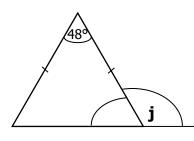


A. 12

B. 8

C. 5

51. What is the size of the angle marked **j** in the diagram given below?



(The diagram is not drawn to scale.)

A. 48°

B. 66°

C. 114°

D. 132°

52. The angle below is



A. concave angle

B. convex angle

C. acute angle

D. straight angle

53. There are 2 green, 4 blue, 3 orange and 3 yellow marbles. What is the probability that Raju picks a blue marble?

A. $\frac{4}{12}$

B. $\frac{1}{4}$

C. $\frac{1}{12}$

D. $\frac{8}{12}$

54. Siteri wrote this number pattern on the blackboard.

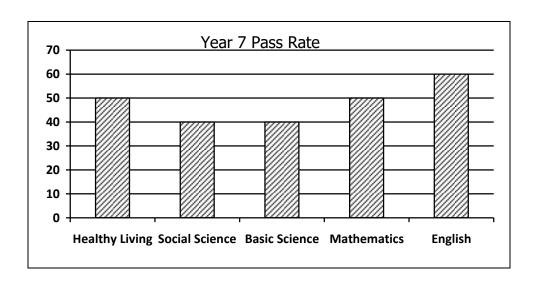
The wrong number in the sequence is

A. 3

B. 15

C. 64

Use the graph below to answer **Question 55 – 56**.



- 55. What percentage passed Healthy Living?
 - A. 20%

B. 30%

C. 40%

- D. 50%
- 56. If there are 40 students in the class how many of them passed Maths?
 - A. 20

B. 30

C. 40

- D. 50
- 57. What is the value of y in the equation?

$$\frac{6y-2}{5}=2$$

A. 5

B. 4

C. 3

58. The average number of students in these four classes is

Year	Class Roll
701	9
702	11
703	12
704	8

A. 4

B. 8

C. 10

D. 40

- 59. If 4y + 8 = 20, than y = ?
 - A. 28

B. 12

C. 5

D. 3

60. The value of \mathbf{x} in the puzzle is

2	8	16
6	10	60
X	80	960

A. 26

B. 12

C. 8

D. 4

THE END