

Quantitative/Numeracy

Objectives

1. The number of rooms at Hotel G is 10 less than twice the number of rooms at Hotel H. If the total number of rooms at both Hotels is 425, what is the number of rooms at Hotel G?

- (a) 140
- (b) 180
- (c) 240
- (d) 280

True Answer : 280

2. Look at this Series; 14, 28, 20, 40, 32, 64,
What number should come next?

- (a) 52
- (b) 56
- (c) 96
- (d) 128

True Answer : 56

3. Look at this Series: 31, 29, 24, 22, 17, What number should come next?

(a) 15

(b) 14

(c) 13

(d) 12

True Answer : 15

4. In an election between 2 candidates, one got 55% of the total valid votes, 20% votes were invalid. If the total number of votes was 7500, what was the number of valid votes that the other candidate got?

(a) 2800

(b) 2700

(c) 3300

(d) 2500

True Answer : 2700

5. 4 adults consumed food costing \$60 for 3 days. For the same food cost, what would be the cost of food consumed by 7 adults for 5 days?

- (a) \$300
- (b) \$175
- (c) \$105
- (d) \$100

True Answer : \$175

6. Look at this Series; 22, 21, 23, 22, 24, 23, ...

What number should come next?

- (a) 22
- (b) 24
- (c) 25
- (d) 26

True Answer : 25

7. For this Series of alphanumeric fractions: A/2, B/4, C/6, D/8. ?, ?, What should be the next fraction?

- (a) E/8, F/10

(b) E/12, F/14

(c) E/10, F/12

(d) D/10, E/1

True Answer : E/10, F/12

8. Look at this Series: 7, 10, 8, 11, 9, 12, What number should come next?

(a) 7

(b) 10

(c) 12

(d) 13

True Answer : 10

9. 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work

(a) 24

(b) 22

(c) 18

(d) 12

True Answer : 24

10. 4 mat-weavers can weave 4 mats in 4 days.

At the same rate, how many mats would be woven by 8 mat-weavers in 8 days?

(a) 4

(b) 8

(c) 12

(d) 16

True Answer : 16

11. A cubical block of metal weighs 6 pounds.

How much will another cube of the same metal weigh if its sides are twice as long?

(a) 48

(b) 32

(c) 24

(d) 16

True Answer : 48

12. A P.E. teacher orders 30 new jersey for the school football team. If each of the jersey cost GH 3.99, what is the total cost of these jerseys.

- (a) GH 119.70
- (b) GH 219.70
- (c) GH 130.67
- (d) GH 230.67

True Answer : GH 119.70

13. A store pays GH 82.95 for a microwave and marks the price up by 20%. What is the new price?

- (a) GH 17.99
- (b) GH 82.95
- (c) GH 99.54
- (d) GH 100.94

True Answer : GH 99.54

14. Of the following fractions, which of them is greater than $\frac{1}{2}$?

(a) $2/1$

(b) $4/7$

(c) $4/9$

(d) $5/11$

(e) True Answer : $4/7$

15. In a class of 78 students. 41 are taking Journalism, 22 are taking Public Relations. Of the students taking Journalism or Public Relations, 9 are taking both courses. How many students are not students are not enrolled in either course?

(a) 6

(b) 15

(c) 24

(d) 33

True Answer : 15

16. In a class of 24 pupils, 4 need additional support. What fraction of the class in lowest term needs additional support?

- (a) $1/6$
- (b) $1/8$
- (c) $1/4$
- (d) $1/2$

True Answer : $1/6$

17. There are 3 apples and you take away 2. How many do you have?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

True Answer : 2

18. What is the average (arithmetic mean) of all the multiples of ten from 10 to 190 inclusive?

- (a) 90
- (b) 95

(c) 100

(d) 105

True Answer : 100

19. If an object travels at five feet per second, how many feet does it travel in one hour

(a) 30

(b) 300

(c) 1800

(d) 18000

True Answer : 18000

20. Look at this Series; D-4, F-6, H-8, J10, ?, ?.

What pair of letters/numbers should come next?

(a) K-12, M-13

(b) L-12, M-14

(c) L-12, N-14

(d) K-12, M-14

True Answer : L-12, N-14

21. Yaw, Kofi and Ama shared the profit they earned in a month from a joint business in the ratio 2:4:3 respectively. If

Ama and Kofi together got a total of GH 42.00.

Find the profit earned in the month.

(a) GH 50.40

(b) GH 54.00

(c) GH 62.00

(d) GH 68.00

True Answer : GH 54.00

22. A woman bought 210 oranges for 65

Ghanaian Cedis. She sold all of them at 3 for 2 cedis. How much profit did she make?

(a) 35 cedis

(b) 45 cedis

(c) 65 cedis

(d) 75 cedis

True Answer : 75 cedis

23. Mark is 30 years old. Yaw is half as old as Mark. Paul is 10 years older than Yaw.

How old is Paul?

- (a) 30 years
- (b) 25 years
- (c) 20 years
- (d) 15 years

True Answer : 25 years

24. If the ages of ten pregnant women in a maternity clinic are

26,23,24,27,26,21,22,25,23,23. Find the mean age.

- (a) 34 years
- (b) 14 years
- (c) 23 years
- (d) 24 years

True Answer : 24 years

25. A man has $6p$ sheep and $5q$ goats. He sells $3p$ sheep and $2q$ goats. How many animals are left after the sales?

- (a) $3p - 3q$
- (b) $3p + 3q$ (c) $9p - 5q$
- (d) $9p + 9q$

True Answer : $3p + 3q$

26. Express 3m and 24cm in kilometers.

- (a) 3.24 km
- (b) 0.00324 km
- (c) 0.324 km
- (d) 32.4 km

True Answer : 0.00324 km

27. A tank holds 240 litres of water. How much water is in the tank when it is full?

- (a) 240 litres
- (b) 192 litres
- (c) 132 litres
- (d) 60 litres

True Answer : 192 litres

28. The least number in a set of real numbers is greater than 24 and the highest is less than 30. Which of the following is the best interpretation of this statement?

- (a) $24 > x > 30$
- (b) $24 < x = 30$
- (c) $24 > x < 30$
- (d) $24 < x < 30$

True Answer : $24 < x < 30$

29. The sum of the ages of Kweku and Kojo is 30 years. Kweku is 4 years older than Kojo. How old is Kojo?

- (a) 19 years
- (b) 17 years
- (c) 13 years
- (d) 11 years

True Answer : 13 years

30. Simplify $- 27 + 18 - (10 - 14) - (-2)$.

- (a) - 3
- (b) - 7
- (c) - 11
- (d) - 35

True Answer : - 3

31. An amount of money was shared between Kofi and Ama in the ratio 3 : 5 respectively. If Ama received GHc 650.00, What was Kofi's share?

- (a) GHc 390.00
- (b) GHc 550.00
- (c) GHc 1040.00
- (d) GHc 743.00

True Answer : GHc 390.00

32. Which of the following statements is TRUE about natural numbers?

- (a) All prime numbers are odd
- (b) Composite numbers have more than twodivisors
- (c) The sum of any two natural numbers areodd

(d) Even numbers are not divisible by 2

True Answer : Composite numbers have more than two divisors

33. A car left Nsawam 9:45 am. It arrived in Kumasi in 3 hours 17 minutes later. At what time did the car arrived in Kumasi.

(a) 12 : 02 pm (b)

12 : 52 am

(c) 1 : 02 am

(d) 1 : 02 pm

True Answer : 1 : 02 pm

34. There are p boys and q girls in a classroom. Each person had 2 textbooks. Which of these expressions represents the total number of textbooks carried to the classroom?

(a) $2(p + q)$

(b) $2 + (p + q)$

(c) $2p + q$

(d) $2pq$

True Answer : 2 (p + q)

35. How many degrees does a minute hand of a clock turn through from 6 : 20 am to 7 : 00 am the same day?

- (a) 120 degrees
- (b) 320 degrees
- (c) 180 degrees
- (d) 240 degrees

True Answer : 240 degrees

36. Mansah obtained 150 marks out of 240 marks in a Mathematics test. What was her percentage score?

- (a) 33.33 %
- (b) 36.50 %
- (c) 41.67 %
- (d) 62.50 %

True Answer : 62.50 %

37. What is the next tern in the pattern ? $4 \ 4 = 0$,
 $4 - 3 = 1$, $4 - 2 = 2$, $4 - 1 = 3$, $4 - 0$

$$= 4, \quad \underline{\quad} - \underline{\quad} = 5.$$

(a) $4 - (-1) = 5$

(b) $4 - (-2) = 6$

(c) $4 - 1 = 3$

(d) $4 - 5 = -1$

True Answer : $4 - (-1) = 5$

38. It takes 15 men an average of 48 days to weed a plot of land. How many men can weed the same plot of land in 16 days, if they work at the same rate?

(a) 45

(b) 32

(c) 18

(d) 5

True Answer : 45

39. A company has 200 employees. Thirty nine percent of them work in the machine room and 32% are engaged in distribution of goods. How

many of the employees are engaged in other duties apart from these two?

(a) 45

(b) 56

(c) 58

(d) 71

True Answer : 58

40. Six hundred copies of a book have to be packed into boxes. Each box can hold 15 of the books. Which one of the following operations could be used to find the number of boxes needed?

(a) Add 15 to 600

(b) Divide 600 by 15

(c) Multiply 600 by 15

(d) Subtract 15 from 600

True Answer : Divide 600 by 15

41. A boy used two-thirds of his weekly savings to buy a textbook. If he realized that he has GH

10.00 left, how much was the weekly savings.

- (a) GH 20.00
- (b) GH 30.00
- (c) GH 40.00
- (d) GH 60.00

True Answer : GH 30.00

42. Some pages in a book on a bookshelf are missing so that page 21 is now followed immediately by page 43. How many pages are missing?

- (a) 20
- (b) 21
- (c) 22
- (d) 43

True Answer : 22

43. Eleven more than 2 times Jona's age is equal to 59. How old is Jona?

- (a) 23 years
- (b) 24 years

(c) 67 years

(d) 35 years

True Answer : 24 years

44. Mr. Adaber bought three items priced at GH 65.50, GH 36.45 and GH 15.78. He paid with three GH 50.00 notes. How much change did he received?

(a) GH 32.27

(b) GH 32.73

(c) GH 33.27

(d) GH 33.73

True Answer : GH 32.27

45. Dora has a bag containing 3 blue tennis balls. Jennifer has a bag containing 2 black tennis balls. Their balls are all identical except for colours. The two girls put the balls in one bag. If a ball is picked at random from the bag, what is the probability that the ball is black?

(a) $1/10$

(b) $1/5$

(c) $2/5$

(d) $3/5$

True Answer : $2/5$

46. If you take away the sum of 248.25 and 63.17 from 890.45, what is left?

(a) 579.03

(b) 589.03

(c) 589.13

(d) 689.03

True Answer : 579.03

47. The population of two communities are 1.8705×10^6 and 9.00846×10^5 .

Calculate the total population of the two communities. (a) 277,145

(b) 2,771,365

(c) 2,972,000

(d) 10,880,000

True Answer : 2,771,365

48. Dartey recorded a mean score of 24 on five tests. What should she score on the sixth test to bring her mean score up to 26?

- (a) 30
- (b) 32
- (c) 36
- (d) 40

True Answer : 36

49. A school wants to fence its rectangular playing field measuring 118m by 92m with wire mesh. How many meters of wire mesh will be needed to complete the fencing?

- (a) 200 m
- (b) 410 m
- (c) 420 m
- (d) 440 m

True Answer : 420 m

50. If the population of a village increases by 97, it will reach at least 4,050 people. Which one of the following inequalities represents the statement correctly?

(a) $P + 97 < 4,050$

(b) $P + 97 = < 4,050$

(c) $P + 97 = < 050$

(d) $P + 97 > 4,050$

True Answer : $P + 97 = < 4,050$