Myfuture CBC Revision

Mathematics - GRADE 8

Question Paper

1. What is the time on the clock face whose hour hand points at 7 and minute hand points at 4?

A. 7:30

B. 7:04

C. 7:20

D. 17:40

2. Solve 3z+(-4)=-1

A. z=-5

B. z=5

C. z=1

D. z=-1

3. What is the result of 4.7 + 2.15?

A. 6.85

B. 6.3

C. 8.85

D. 7.85

4. Simplify the expression: 5(2x - 3)

A. 10x - 6

B. 10x - 3

C. 10x + 15

D. 10x - 15

5. Convert into metres 2 km 250 m.

A. 22.5

B. 22500

C. 2250

D. 225

6. Which shape can be formed by rotating a triangle around one of its sides?

A. Cylinder

B. Cone

C. Cube

D. Sphere

7. Solve 3y-2=10

A. y=-4

B. y=44

C. y=2

D. y=4

8. Solve -3a+6=27

A. a=33

B. a=14

C. a=7

D. a=-7

9. What is the probability of flipping a coin and getting heads?

A. 2/3

B. 1/2

C. 3/4

D. 1/3

10. I can use a _____ to measure length.

A. thermometer

B. clock

C. timer

D. ruler

11. Find the square root of 256.

A. 18

B. 26

C. 14

D. 16

12. Solve 3u-(-10)=-2

A. u=8

B. u=-4

C. u=4

D. u=14

13. Find the surface area of the rectangular prism with the following dimensions:
length = 16 m
height = 10 m
width = 11 m

A. 892 m squared

B. 1,760 m squared

C. 872 m squared

D. 752 m squared

14. Which number is a perfect square?

A. 1001

B. 1233

C. 99

D. 64

15. 2 x 2 x 2 is the prime factorization of...

A. 22

B. 8

C. 6

D. 12

16. What is the square of 45?

A. 2075

B. 1975

C. 2125

D. 2025

17. Olang' borrowed sh.54000 from a bank which charged interest at the rate of 18% p.a .He repaid the whole loan after 8 months. How much did the pay back?

A. sh 77760

B. sh 60,480

C. sh 680

D. sh 14580

18. How many 5 Kenyan Shilling coins would you need to have 75 Kenyan Shillings?

A. 20 coins

B. 5 coins

C. 15 coins

D. 10 coins

19. Kantai bought 200 chicken whose average weight was 1.5 kg .The buying price per kilogram was sh 150.He then sold each chicken for sh 250. What percentage profit did he make?

A. 231%

B. 2165%

C. 11.1%

D. 1111%

20. How do you calculate the area of a regular polygon?

A. Perimeter x Side Length

B. Perimeter x Apothem

C. Side Length x Side Length

D. Apothem x Side Length

21. Use an equality symbol to represent the following statement.
12 7

A. </=

B. >

C. >/=

D. <

22. If 5 kg of sugar costs Ksh. 200, how much will 3 kg of sugar cost?

A. Ksh. 180

B. Ksh. 140

C. Ksh. 120

D. Ksh. 160

23. What is the square of 12.4?

A. 0.15376

B. 1537.6

C. 153.76

D. 15376.0

24. What is the formula for the radius of a circle?

A. r = area /

B. r = circumference / 2

C. r = diameter / 2

D. r = 2 / circumference

25. Solve -3c+8=-4

A. c=8

B. c=0

C. c=4

D. c=-4

26. Solve the following equation.
2/3k - 4 = 14

A. k=13

B. k=27

C. k=56

D. k=108

27. Fill in the blank in order to create a true number sentence:
1/2 = __ /8

A. 8

B. 4

C. 6

D. 2

28. What is the probability of selecting a prime number on a single roll of a fair six-sided dice?

A. 1/2

B. 2/3

C. 1/6

D. 1/3

29. How do we obtain profit ?

A. Subtracting buying price from selling price

B. Adding buying price and selling price

C. Subtracting selling price from buying price

D. Adding commission

30. Solve 3z+6=21

A. z=2

B. z=12

C. z=6

D. z=5

31. Which of the following fractions is the largest?

A. 3/7

B. 5/12

C. 4/9

D. 2/5

32. Most frequent occurring value in a series is called.....

A. Median

B. Mode

C. Mean

D. None of these

33. Write the inequality:

The Washington Nationals have won more than 100 games.

A. x 100

B. x 100

C. x > 100

D. x < 100

34. If point R lies on the y-axis, what is the x-coordinate of point R?

A. 0

B. -3

C. 4

D. 1

35. How many meters are in 5.5 km?

A. 55 meters

B. 5,500 meters

C. 5.5 meters

D. 550 meters

36. What is the unit used to measure temperature in the Rankine scale?

A. Rankine

B. Newtons

C. Pascals

D. Kelvins

37. Write the phrase as an expression. "the product of a number m and 23".

A. 23m

B. m-23

C. m+23

D. m/23

38. If you pick a random letter from the word 'MATHEMATICS', what is the probability of selecting the letter 'A'?

A. 1/8

B. 1/10

C. 1/5

D. 1/4

39. Solve x + 12 = 20

A. x = 32

B. x = -8

C. x = 8

D. x = -32

40. Which of the following is the smallest decimal number?

A. 0.077

B. 0.03

C. 0.21

D. 0.35

41. What is the correct way to construct a line segment that is half the length of another line segment?

A. Use a protractor to measure the angle

B. Draw random dots

C. Draw a perpendicular line

D. Use a set square or ruler

42. Calculate the cross-section area of a cylinder whose radius and height are 7 cm and 10 cm respectively.

A. 1540 square centimetre

B. 154 cubic centimetres

C. 154 square centimetre

D. 1540 cubic centimetres

43. Find the quotient.
0.65 and 0.25.

A. 26

B. 2.6

C. 0.26

D. 0.026

44. Solve -2u+(-1)=-13

A. u=6

B. u=-66

C. u=-6

D. u=66

45. What is the formula for finding the area of a sector of a circle?

A. x Radius

B. x Radius x Radius

C. 0.5 x x Radius

D. 2 x x Radius

46. Find the solution for
23.734 + 10.348

A. 13.386

B. 33.072

C. 34.082

D. 34.82

47. Express 0.78 as a percentage.

A. 78%

B. 0.078%

C. 780%

D. 7.8%

48. What is a scale drawing?

A. A drawing that shows real-life measurements

B. A drawing that is not proportional to the actual object

C. A drawing that is smaller or larger than the actual object

D. A drawing that is made to an actual size

49. What is the sum of 1/3 and 2/3?

A. 3/3

B. 2/6

C. 4/6

D. 1/2

50. Which of the following is the smallest fraction?

A. 1/5

B. 4/11

C. 2/7

D. 3/4