Myfuture CBC Revision

Mathematics - GRADE 8

Question Paper

1. Simplify:
-1x + y - z + 10z + 2x - 10y

A. 1x - 9y + 9z

B. 1x - 9z - 9y

C. -1x - 9z - 9y

D. -1x - 9 - 9y

2. Which of the following is a binomial expression?

A. 4x^3 + 2x^2 - x

B. 2x^2 - 3x

C. 5x^2 + 3x - 2

D. 3x + 7

3. Solve -3c-4=2

A. c=-2

B. c=2

C. c=-22

D. c=48

4. What is the total value of digit 7 in the number 42765831?

A. 7000000

B. 70000

C. 7000

D. 700000

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

A. 2

B. 8

C. 4

D. 6

6. If you add two negative integers, what is the sign of the result?

A. Negative

B. Zero

C. Positive

D. Can't be determined

7. If a car travels at a speed of 50 km/h, how long will it take to cover a distance of 200 kilometers?

A. 2 hours

B. 3 hours

C. 5 hours

D. 4 hours

8. Solve 2b-5=7

A. b=0

B. b=-6

C. b=6

D. b=5

9. In a right triangle, the longest side is 8 cm. One of the remaining sides is 43 cm long. Find the length of the other side.

A. 4cm

B. 11cm

C. 2cm

D. 19cm

10. Which factors are of 42?

A. 1

B. 4

C. 8

D. 16

11. If 1 Kenyan Shilling is equal to 0.009 US Dollars, how many US Dollars would 50 Kenyan Shillings be?

A. 0.45 USD

B. 4.50 USD

C. 0.05 USD

D. 0.90 USD

12. Jim travelled at a speed of 18km/h for 2hours.what was the distance covered?

A. 36km

B. 603km

C. 360km

D. 63km

13. Form an algebraic expression from the statement below.
w divided by the sum of w and 12.

A. 2w / w + 12

B. w / 12

C. w/(w + 12)

D. w / 1+12

14. What is the sum of the first 20 whole numbers?

A. 230

B. 190

C. 210

D. 220

15. Which number is divisible by 3?

A. 2572312

B. 312

C. 329

D. 785

16. A cyclist travel 20km in 4hrs.What speed did the cyclist cycle at?

A. 20km/h

B. 0.5km/h

C. 180km/h

D. 5km/h

17. A bag contains 3 red balls, 4 blue balls, and 5 green balls. If a ball is chosen at random from the bag, what is the probability of it being blue?

A. 3/12

B. 1/4

C. 4/12

D. 2/5

18. Which of the following numbers is a multiple of 5?

A. -7

B. 15

C. 12

D. -10

19. Which of the following is not a whole number?

A. 0

B. 2

C. 3.5

D. 9

20. What is the formula for finding the area of a rectangle?

A. B) Length + Width

B. C) Length / Width

C. A) Length x Width

D. D) 2 x (Length + Width)

21. In this equation, 4a - 10 = 9a, which is the constant?

A. 4, 9, and -10

B. 4a and 9a

C. -10

D. 4 and 9

22. In constructing a perpendicular from a point to a line, what should be done first?

A. Extend the line

B. Use a protractor to measure the angle

C. Place the compass on the point

D. Draw an arc intersecting the line

23. What is the total value of digit 4 in the number 29.2154?

A. Tens of thousandths

B. Thousands

C. 0.0004

D. 0.004

24. What is the solution set of the inequality 2x + 5 < 17?

A. {x | x < 4}

B. {x | x > 4}

C. {x | x < 6}

D. {x | x > 6}

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

A. 1

B. 0

C. 4

D. -3

26. Which shape has a flat circular base and a flat circular top?

A. Cylinder

B. Cube

C. Cone

D. Sphere

27. What is absolute zero in Celsius?

A. 100Â°C

B. 0Â°C

C. -100Â°C

D. -273Â°C

28. A tray contains 30 eggs. A kiosk own bought 5 trays at sh 150 each.The eggs in to trays got broken he then sold the remaining eggs at sh 6 per egg what loss did he make?

A. sh 210

B. sh 220

C. sh 30

D. sh 250

29. Which of the following numbers is a perfect square?

A. 27

B. 49

C. 32

D. 53

30. A mathematical lesson took 2/3 hours.How long did the lesson take in minutes?

A. 30

B. 120

C. 33

D. 40

31. What is the place value of digit 1 in the number 1000000?

A. ones

B. tens of thousands

C. thousands of thousands

D. millions

32. How do you find the area of an isosceles triangle?

A. Base^2 x SQRT(3)/4

B. 1/2 x Base x Height

C. Side x Side

D. Height x Base

33. What is the unit of measurement for area?

A. Litres

B. Kilograms

C. Meters

D. Square meters

34. Which of these numbers is a natural number?

A. -7

B. 3

C. 0

D. 1

35. Convert 8 cubic centimetres into cubic metres.

A. 800000

B. 8000

C. 8000000

D. 800

36. Calculate the square root of 0.0081.

A. 0.09

B. 0.009

C. 0.0009

D. 0.9

37. Solve -3z+2=5

A. z=-5

B. z=5

C. z=1

D. z=-1

38. Which is the smallest number: 0.62, 0.26, 0.37, 0.51?

A. 0.51

B. 0.37

C. 0.26

D. 0.62

39. In which quadrant does point H(-2, -3) lie?

A. Quadrant IV

B. Quadrant II

C. Quadrant III

D. Quadrant I

40. Which measures of central tendency get affected if the extreme observations on both the ends of a data arranged in descending order are removed?

A. Mean and Median

B. Mean and mode

C. Mode and Median

D. Mean, Median and Mode

41. Solve 3b+9=-18

A. b=6

B. b=-1\9

C. b=-9

D. b=9

42. Carlisle is a distance of 135miles away from Airdrie.If I travelled at a constant speed of 45mph.How long would it take me to get there?

A. 3minutes

B. 1hour 2minutes

C. 3hours

D. 6hours

43. What is the probability of rolling a number less than 5 on a fair six-sided dice?

A. 4/5

B. 1/2

C. 3/4

D. 2/3

44. Find the area of a trapezoid with bases of 3 in and 7 in, with a height of 6 in?

A. 32 square in

B. 60 square in

C. 30 square in

D. 36 square in

45. What is the sum of squares of 2 1/2 and 4 1/4?

A. 6 3/4

B. 36 9/16

C. 20 5/16

D. 24 5/16

46. Calculate the square of 4/7.

A. 16/49

B. 8/7

C. 2/7

D. 8/14

47. Write the improper fraction as a mixed number

36/4

A. 9 3/4

B. 9 1/4

C. 9

D. 8 4/4

48. Solve -2c+1=15

A. c=2

B. c=3

C. c=-7

D. c-2

49. What is the formula for finding the volume of a cube?

A. 2 x (L + W)

B. L x W

C. L x W x H

D. L + W + H

50. What is the solution set of the inequality -2x + 9 < 5?

A. {x | x < 4}

B. {x | x > 4}

C. {x | x > 2}

D. {x | x < 2}