Myfuture CBC Revision

Mathematics - GRADE 9

Question Paper

1. What is the purpose of a scale factor in a scale drawing?

A. To change the shape of the drawing

B. To calculate the area of the drawing

C. To determine the units of measurement

D. To adjust the size of the drawing relative to the actual object

2. Convert the mixed number to a fraction: 5 3/8

A. 40/8

B. 38/8

C. 15/8

D. 43/8

3. Halima made a profit of 25% after selling a dress for sh 500 and a 20 % loss after selling a pair of shoes for sh 100 . what was the total cost for the dress and the pair of shoes

A. sh 65

B. sh 30

C. sh 525

D. sh 20

4. Solve the equation 6(x - 1) = 2x + 8.

A. x = 5

B. x = 2

C. x = 3

D. x = 4

5. If you have 3/4 of a cake and I have 7/8 of a cake, who has more cake?

A. Cannot be determined

B. We have the same amount of cake

C. I have more cake

D. You have more cake

6. How do you calculate the area of a rhombus?

A. Perimeter x Side

B. Base x Height

C. Diagonal1 x Diagonal2 / 2

D. Side x Side

7. Convert 5 1/4 cubic metres into cubic centimetres.

A. 5250

B. 52500

C. 5250000

D. 525000

8. Solve x + 5 > 7

A. x > 12

B. x > -12

C. x > 2

D. x > -2

9. What is the reciprocal of 2/3?

A. 3/1

B. 1/3

C. 3/2

D. 2/4

10. If a train travels at a speed of 150 km/hr for 2 hours, how far does it travel?

A. 325 km

B. 300 km

C. 350 km

D. 275 km

11. Which point is located at coordinates (5, 6)?

A. Point B

B. Point E

C. Point D

D. Point C

12. What is the probability of drawing a face card (Jack, Queen, King) from a standard deck of 52 playing cards?

A. 1/4

B. 1/13

C. 3/13

D. 1/3

13. Solve 2a+9=11

A. a=-1

B. a=4

C. a=1

D. a=7

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

A. 40

B. 33

C. 120

D. 30

15. Solve -2y+4=24

A. v=-9

B. v=-6

C. v=-4

D. v=-10

16. A school has a male teachers,b female teachers,c boys and d girls.How many people are in the school altogether?

A. ab+cd

B. a+b+c+d

C. abcd

D. abc+ d

17. .....has 5 sides.

A. Oxagon

B. Hexane

C. Pentagon

D. Triangle

18. The volume of a cuboid is 3 1/2 cubic metres.What is the volume of the cuboid in cubic centimetres?

A. 350000

B. 3500000

C. 320000

D. 3100000

19. What is the result of 11 squared?

A. 131

B. 121

C. 111

D. 110

20. Solve 2y-9=-19

A. y=-5

B. y=4

C. y=5

D. y=19

21. Form a compound inequality using the inequalities below:
n > 2 and n <= 7

A. 2 < n <= 7

B. 2 > n <= 7

C. 2 < n >= 7

D. 7 < n <= 2

22. What is the square root of 0.04?

A. 0.02

B. 0.08

C. 0.0016

D. 0.2

23. The probability of an event always lies between____

A. 0 and 1

B. None of the above

C. 2 and 3

D. 1 and 2

24. Chali bought a mattress for sh800.He later sold the mattress for sh1000.Calculate the profit he made.

A. sh200

B. sh600

C. sh1800

D. sh1200

25. Solve 3x-(-7)=25

A. x=2

B. x=1

C. x=6

D. x=-2

26. Which of the following are units used to calculate the volume of a cube?

A. s × s × s

B. s × s × h

C. 1/2 × b × h

D. l × w × h

27. Which inequality represents the statement 'a number is less than 9'?

A. x < 9

B. x â‰¤ 9

C. x â‰¥ 9

D. x > 9

28. Which fraction is larger, 4/9 or 3/7?

A. They are equal

B. Cannot be determined

C. 3/7

D. 4/9

29. If 10 workers can build a bridge in 30 days, how many workers are needed to build the same bridge in 20 days?

A. 18 workers

B. 15 workers

C. 30 workers

D. 25 workers

30. What is 3/6 simplified to its lowest terms?

A. 4/6

B. 1/2

C. 2/6

D. 3/6

31. How many milliliters are in half a liter?

A. 750 ml

B. 500 ml

C. 1000 ml

D. 250 ml

32. What units do we use to show area?

A. cubed units

B. squared units

C. Metres

D. units

33. What is the value of 5 to the power of 3?

A. 15

B. 100

C. 20

D. 125

34. Which of the following units cannot be used to represent speed?

A. metres per second

B. centimetres per seconds

C. litres per second

D. kilometres per hour

35. Which number is divisible by 2?

A. 147

B. 47

C. 49

D. 420

36. What is the correct way to construct a line segment equal in length to a given line?

A. Use a set square or ruler

B. Use a protractor to measure the angle

C. Draw arcs with a compass

D. Draw a perpendicular line

37. What is the magnification factor for a scale drawing with a scale of 1:5?

A. 1.25

B. 5

C. 0.5

D. 0.2

38. The lowest temperature on Thursday was -20o C. The lowest temperature on Saturday was -12o C. What was the difference between the lowest temperatures?

A. 32o C

B. 8o C

C. 13o C

D. 9o C

39. What is the value of log base 2 of 32?

A. 4

B. 2

C. 3

D. 5

40. Which of the following points lies on the line y = 3x - 2?

A. (1, 0)

B. (3, 9)

C. (0, -2)

D. (2, 4)

41. Find the missing numerator:
2/3 = ?/9

A. 7

B. 4

C. 6

D. 9

42. What is the decimal value of three and five hundredths?

A. 3.500

B. 35.0

C. 3.5

D. 3.05

43. What is the formula for the volume of a sphere?

A. 2r

B. r^2

C. 4/3r^2

D. 4/3r^3

44. Which solid has 4 faces, 5 vertices, and 6 edges?

A. Pentagonal prism

B. Cuboid

C. Cylinder

D. Octahedron

45. Which of the following is a rational number?

A. 1/3

B. 7

C. -3

D. 2

46. How many millimeters are in a decimeter?

A. 100 mm

B. 10 mm

C. 1 mm

D. 1000 mm

47. Multiply 7 Hm 3 Dm 2 cm by 3.

A. 9Hm 49Dm 6cm

B. 49Hm 9Dm 6cm

C. 49Hm 10Dm 6cm

D. 40Hm 9Dm 6cm

48. Convert into °c 12 K.

A. 283 °c

B. -261 °c

C. 261 °c

D. -283°c

49. Work the square of 0.28.

A. 0.0784

B. 0.784

C. 7.84

D. 0.00784

50. ABC is a right triangle. AC is its hypotenuse. Length of side AB is 25. Side BC is twice of side AB. Find the length of AC.

A. 14

B. 10

C. 17

D. 15