Mathematic questions 2016

1. Express the square root of 0.0016 in standard form
2. 4 X 10⁻¹ B. 4 X 10⁻² C. 4 X 10⁻³ D. 4 X 10⁻⁴
3. The sine of an angle is the ratio of the opposite to the
4. Adjacent B. hypothenus C. square D. tangent
5. Calculate the median of the following numbers 5, 12, 3, 9, 10, 3
6. 7 B. 8 C. 9 D. 10
7. The line drawn from the circumference to the circumference but not passing through the centre is called

A. chord B. diameter C. gradient D. radius

1. Write 2995 in Roman numeral
2. MMCMXCV B. MMMCXCV C. MMCMLIV D. MMCMLV
3. Express 350g as a fraction of 1kg

A. 7/10 B. 7/20 C. 7/100 D. 7/200

1. The term probability means a game of

A. certainty B. chance C. ludo D. dance

1. When 15 is added to a certain number and the sum is multiplied by 5, the result is 85. Find the number

A. 1 B. 2 C. 3 D. 4

1. Simplify 4xy² X 3x²y

A.12x³y² B. 12x²y C. 12x³y³ D. 12xy²

1. In a test of 20 marks, the mark of 5 students were 16, 18, 19, 17 and 16. Find the mean mark

A. 14.8 B. 16.8 C. 17.2 D. 18.8

1. Express 0.0035 in standard form
2. 3.5 X 10⁻¹ B. 3.5 X 10⁻² C. 3.5 X 10⁻³ D. 3.5 X 10⁻⁴
3. Solve the equations x + y = 50; 3x + 4y = 180 A. (10, 40) B. (20, 30) C. (25, 25) D. (30, 20)
4. A motor dealer bought a second hand car for $180,000 and sold it at $225, 000. Find the gain percent A. 20% B. 25% C. 30% D. 35%
5. Simplify (8h – 2) – (5 – 3h)

A. 11h + 7 B. 11h + 3 C. 11h – 7 D. 5h + 3

1. Approximate 45673 to the nearest thousand

A. 45,670 B. 45, 700 C. 46, 000 D. 50, 000

1. A square has how many line of symmetry?

A. 2 B. 3 C. 4 D. 5

1. Find the product of 5 and the positive difference between 13 and 6

A. 35 B. 48 C. 59 D. 65

1. How many metres are there in d kilometres?

A. 1000d B. d + 1000 C. d D. d -1000

1. A father shared the sum of $500 among his three children, Ayo, Anu and Sola in the ratio 5:3:2. What is Anu’s share?

A. 166.7 B. 250 C. 150 D. 100

1. If 0.68 is express as a fraction in its lowest, its denominator is
2. 40 B. 29 C. 25 D. 17
3. If the circumference of a circle is 72cm, its radius is (A. 9.3 B. 10.35 C. 11.25 D. 11.45
4. Express 0.65 as fraction

A. 2/5 B. 3/5 C. 12/20 D. 9/13

1. What is the sum of 1101, 11101 and 101101 in base two

A. 1000110 B. 1001010 C. 1010110 D. 1010111

1. Find the product of the square roots of the first two consecutive perfect squares

A. 12 B. 8 C. 4 D. 2

1. If 25% of a number is 75, find the number.

A. 600 B. 500 C. 400 D. 300

1. Given that 7: y = 21: 6, find the value of y

A. 2 B. 6 C. 16 D. 24

1. How many sides has a regular polygon whose sum of the interior angles is 540⁰. A. 4 B. 5 C. 6 D. 7
2. How many lines of symmetry has a square? A. 1 B. 2 C. 3 D. 4
3. Find the circumference of a circle of radius 21cm ( π = 22/7)

A. 21 B. 66 C. 76 D. 132

1. Find x if 3/8 = 9/x A. 8 B. 16 C. 21 D. 24
2. Onyinye tossed a fair coin once, what is the probability of having a head

A. 5/6 B. 3/5 C. ½ D. 2/5

1. A fair die is thrown once. What is the probability of getting a prime number?

A.3/4 B. 2/3 C. ¼ D. 1/5

1. Approximate 5.7255 to the nearest thousandth

A. 5.7 B. 5.725 C. 5.7255 D. 5.726

1. Express 32 as a ratio of 72

A. 34: 16 B. 16 : 34 C. 9:4 D. 4 : 9

1. Round off 6827 to the nearest ten

A. 6820 B. 6821 C. 6830 D. 6900

1. The following is the formula for the area of a circle: *A* = *πr*2. If the radius of a circle is 1.25 cm, which of the following is closest to its area? A. 15.4 cm2B. .9 cm2 C. 4.9 cm2 D. 3.9 cm2
2. 6 X 111 – 3 X 111

A. 222 B. 333 C. 444 D. 555

1. 1/3 x ½ ÷ 1/3 A. ½ B. 1 C. 2 D. ¼
2. The sum of the largest and the smallest of these number 60, 129, 325, 9, 45

A. 334 B. 343 C. 433 D. 435

1. 15% of ₦560 – 15% of ₦500

A. ₦7 B. ₦8 C. ₦9 D. ₦10

1. The simple interest on ₦12000 at rate of 5% per annum for 3years is

A. ₦18 B. ₦180 C. ₦1800 D. ₦18000

1. 12% of 300

A. 63 B. 42 C. 36 D. 14

1. Which of the following is false, if 3/5= 2/ ?

A. 3/x = 5/2 B. x/2 = 5/3 C. x/5 = 2/3 D. 3x = 10

1. The number of positive even factors of 18 is

A. 0 B. 1 C. 2 D. 3

1. If 3x – 15 = 0, find x

A. 2 B. 3 C. 4 D. 5

1. If (x- 1 )( x + 2) = 0, find x

A. -1 or 2 B. -2 or 1 C. 1 D. 2

1. A quadrilateral with one pair of opposite side is called a

A. triangle B. rectangle C. square D. pentagon

1. The circumference of a circle of radius 2 is

A. 2π B. 4 π C. 6 π D. 8 π

1. A closed six-sided figure is called:

A. Rectangle B. Hexagon C. Polygon D. Heptagon

1. A triangle with no equal side is

A. a scalene triangle B. an isosceles triangle C. a right angle D. an quadrilateral triangle