JS 2 ENGLISH HOLIDAY ASSIGNMENT

A. Unit 13, page 115­-117

1. Practice answering question: 1-4, page 117.
2. Vocabulary: a-g, page 118.

B. Grammar: preposition of place.

1. Look and observe the picture on page 123 and answer questions 1-7, 8-13 and 14-18.

2. Using prepositions page 125, No 1-10 and Test: page 128, 1-8.

JS 2 MATHEMATICS HOLIDAY ASSIGNMENT

Solve all 2nd Term 2018 – 2019 exam objective questions. Show all workings.

**PAPER 1: Objectives**

1. The next term in the sequence 2,3,5,8,12,17 is

(A)23 (B)19 (C) 22 (D)22

1. The square root of 12¼ is:
2. 1 (B) 3 (C) 3 (D) 6
3. Write 0.000263 in standard form
4. 2.63 X 10-6 (B) 2.63 X 10-5 (C) 2.63 X 10-4 (D) 2.63 X 104
5. What is 0.003867 to 3 significant figures?

(A) 0.004 (B) 0.00386 (C) 0.00387 (D) 0.386

1. If (-24) (-3) =y, then y=
2. +72 (B) +27 (C) +8 (D) -8
3. Simply
4. (B) (C) -2 (D)
5. Find the value of , when a=5 and b=-2

(A)- (B) - (C) - (D)

1. Simplify (a + (-a)) + b (A) 2b (B) b (C) 2a (D) 2a-b
2. I think of a number 19 subtracted from the number gives -2. What number am I thinking of?

(A)17 (B) 16 (C) -17 (D) -16

1. What is the next term in the sequence 1,3, 7, 15, 31, … ?
2. 33 (B) 47 (C) 63 (D) 51
3. Find the least number by which 112 must be multiplied to give a perfect square.
4. 2 (B)3 (C)5 (D) 7
5. Express 526000 in standard form
6. 5.26 X 105 (B) 5.26 X 10-5 (C) 5.26 X 10-4 (D) 5.26 X 104
7. A length of wire is given as 6.8cm correct to significant figures. What is the least possible length of the wire?

(A)6.7cm (B) 6.74cm (C) 6.75cm (D) 6.8cm

1. Simplify (y+z)2-2yz

(A) y2 + Z2 +4yz (B) y2 - Z2 (C) y2 + Z2 (D) y2 + Z2 - 2yz

1. If m X (-2) =12, then m=

(A)+24 (B)+14 (C) +6 (D) -6

1. If of a certain number is -6, the number is:
2. -8 (B) - (C) -2 (D) -5
3. What is the value of p2q – q2p, if p=3 and q=1?
4. -12 (B)-6 (C) 0 (D)6
5. I travelled at 60km/h and took 2h for a journey. How long would it have taken me, if I had travelled at 50km/h?
6. 1h (B) 1h (C) 1h (D) 2h
7. In an exam 154 out of 175 candidates passed. What percentage failed?

(A) 6% (B) 12% (C) 13% (D) 15%

1. How much interest does N40,000 make in 5 years at 7% per annum?
2. N3500 (B) N14000 (C) N700 (D) N2000
3. Express + as a single fraction:
4. (B) (C) (D)
5. What percentage of 4 is 5?

(A)125% (B) 120% (C) 80% (D) 25%

1. A trader gains N4000 on a sale which was equivalent to 8% profit. What was the cost price?
2. N54000 (B) N50000 (C) N32000 (D) N500
3. Which of these are factors of 4x2y?

(i) 2x (ii) xy (iii) 4y

(A)i only (B) ii only (C) iii only (D) i, ii and iii

1. The LCM of 5ab2 and 3a2b is is: (A)ab (B) (C) (D) 15a2b2
2. If 5- = 1, x= (A)1 (B)4 (C)6 (D)9
3. Express 11011two in denary (A)17ten (B) 27ten (C) 45ten (D) 54ten
4. Find the perimeter of a parallelogram whose base is 6cm and side 5cm

(A)60cm (B) 35cm (C) 30cm (D) 22cm

1. If the volume of a cube is 27m2, find one of its sides.
2. 3m (B)6m (C) 9m (D) 18cm
3. Calculate the number of ceiling boards of size 18cm by 30cm needed to cover a room 3.6m by 3.6m (A) 150 (B) 240 (C) 294 (D) 440
4. Find the value of C in the diagram below:

60

120o

120o

60o

(A)50o (B) 60o (C) 90o (D) 80o

1. Find the sum of the interior angles of a polygon which has 10 sides.
2. 1260o (B) 1440o (C) 1620o (D) 1800o
3. Find the product of the LCM of 8 and 12 and HCF of 3 and 9
4. 27 (B) 48 (C) 72 (D) 216
5. How many months of 4 weeks each will it takes Moses to purchase a set of stereo costing N27000.00 if he saves N750.00 per week?

(A)7 (B)8 (C)9 (D) 10

15m

8m

1. The area of trapezium below is 46cm2. Find the height.

(A) 4m (B)19m (C) 23m (D) 27m

1. Calculate the circumference of a circle whose radius is 7cm (Take =)
2. 22cm (B) 36cm (C) 44cm (D) 154cm
3. A chord that passes through the centre of circle if called a/an

(A)arc (B) chord (C) diameter (D) radius

1. Which of the following is equivalent to 7.50am in a 24-hour clock

(A)1950 (B) 1610 (C) 1200 (D) 0750

1. The triangle below is an equilateral triangle. Find the value of

8 + y

3x + 15

5x + 9

1. 12(B)16 (C) 24 (D) 48
2. The area of a parallelogram is 24cm2. If its base is 9cm, find the height of the parallelogram to 1 decimal place. (A)2.7cm (B) 4.5cm (C) 9.0cm (D) 12.5cm

6cm

9cm

12cm

1. Calculate the area of the diagram below:

(A)15cm2 (B) 30cm2 (C) 81cm2 (D) 60cm2

1. A rectangle and a square have the same perimeter. If the rectangle is of length 8cm and breadth 6cm, find the length of the square

(A)4cm (B) 7cm (C) 8cm (D) 14cm

1. A plastic factory produces 1800 plastics in 40 hours. What is the production rate per hour?

(A)40 (B)45 (C) 80 (D) 90

1. Divide -5068 by 362

C

20o

146o

(A)-14 (B) -7 (C) 14 (D)7

1. Find the value of C in the diagram below

(A) 34o (B) 104o (C) 126o (D) 160o

1. Find the sum of the interior angles of a regular heptagon

(A)1240 o (B) 1080 o (C) 900 o (D) 650 o

1. Which of the following is a plane shape?
2. Circle (B) Cone (C) Cube (D) Cuboid
3. Subtract 101two from 10111 two

(A)11000 two (B) 10111 two (C) 10010 two (D) 10101 two

1. Find the product of -15z and 17qr
2. -255zr (B) -255qz (C) -255qrz (D) 255qrz
3. Round off 25.5647 to 3 significant figures
4. 2.55 (B) 3.56 (C) 25.5 (D) 25.6
5. The circumference of a circle is 86cm. Find its radius (Take =)
6. 7cm (B) 8cm (C) 14cm (D)36cm

9cm

8cm

12cm

Find the area of the plane shape

(A)90cm2 (B) 72 cm2 (C) 64 cm2 (D) 18cm cm2

1. Which of the following is a multiple of 3, 4 and 5?
2. 30 (B)40 (C)80 (D) 120
3. Find the square root of 2
4. 1 (B) 1 (C) 1 (D) 2
5. Find the value of y in the diagram below

y

3y

5y

(A)30o (B) 40o (C) 60o (D) 270o

1. A line drawn from the center of a circle to any point on the circumference is called a/an
2. arc (B) chord (C) diameter (D) radius
3. Find the perimeter of a rectangle of length 10cm and breath 6cm.
4. 136cm (B)120cm (C) 32cm (D) 16cm
5. The first digit of the square root of 89 is
6. 2 (B)4 (C)8 (D)9
7. Find the HCF of 24, 30 and 42
8. 2 (B)3 (C)6 (D)12
9. A cylinder drum of water is of height 10cm and 14cm in diameter. Find the volume of the drum (Take =) (A)1540cm3 (B) 154cm3 (C) 220cm3 (D) 385cm3
10. Find the perimeter of a regular pentagon with sides 6cm
11. 20cm (B) 26cm (C) 30cm (D) 36cm
12. How many triangles are there in an octagon?

(A)10 (B) 7(C) 8 (D) 6

1. What is the smallest number by which 84 must be multiplied to make it a perfect square?
2. 2 (B)3 (C) 21 (D) 7
3. Simplify 0.02 X o.3055 to 3 decimal places
4. 0.006 (B) 0.001 (C) 0.060 (D) 0.0061
5. How many vertices has a cube?
6. 12 (B) 8 (C) 6 (D)5
7. Calculate the simple interest on N7500 for 4 years at 4½% per annum

(A) N1200.00 (B) N1350.00 (C) N1530.00 (D) N2700.00

1. Find the perimeter of the figure below

15cm

11cm

7cm

B

C

A

(A) 33cm(B) 11cm (C) 15cm (D) 26cm

1. Which of the following is an acute angle?
2. 40o (B) 90o (C) 95o (D) 180o
3. Calculate the volume of a cone whose radius is 7cm and its height is 21cm (Take =)

(A)3234cm3 (B) 1617cm3 (C) 1078cm3 (D) 809cm3

1. If 9 exercise books cost N540.00, how much will 14 of such cost?
2. N640.00 (B) N740.00 (C) N840.00 (D) N900.00
3. Find the area of a rectangle whose length is 8cm and breadth 3cm
4. 24cm2 (B) 22 cm2 (C) 11 cm2 (D) 8 cm2

140o

y

150o

Find the value of y in the diagram above

1. 70o (B) 60o (C) 50o (D) 40o
2. A square of side 11cm and a circle have the same perimeter. Find the radius of the circle (Take =) (A) 7cm (B)11cm (C) 14cm (D) 20cm
3. What is 402 thousandths in decimal fraction?
4. 0.42 (B) 0.402 (C) 0.0402 (D) 0.0042
5. If 12 is subtracted from three times a number, the result is equal to two-thirds of the number plus 16. What is the number?

3cm

4cm

5cm

A

C

B

(A)6 (B)7 (C) 12 (D) 9

1. Find the area of the triangle below:

(A) 8cm2(B) 12cm2 (C) 15 cm2 (D) 16 cm2

1. Calculate the value of a in the figure below:

70o

a

(A)70o (B) 55o (C) 110o  (D) 180o

1. In Talo Community, 48% of the populations are students. If the total population is 600 persons, how many students are in the community?
2. 120 (B)288 (C) 312 (D) 480
3. Express - as a single fraction
4. (B) (C) (D)
5. Given that I= , make p the subject of the formula
6. P= (B) P= (C) P= (D) P =
7. If = , find y
8. 9 (B)3 (C)1 (D) -
9. 6 man can dig a pit for 4 days. How long will it take 4 man working at the same rate to dig same pit? (A) 14 days (B) 8 days (C) 6 days (D) 4 days
10. Simplify the expression 4p+45q – 3p – 40q
11. P +5q (B) 7p + 95q (C) 7p – 95q (D) 7p +5q
12. If the base of a triangle is 6cm and its area is xcm2, find its height in terms of x.
13. 6xcm (B) 3xcm (C)cm (D) cm
14. Simplify -

(A) (B) (C) (D)

1. Simplify 3(m-2n) -4(m-5n)

(A)-13m+20n (B) –m +14n (C) 7m+ 14n (D) 7m -26n

1. In a mixed school of x students, there are y boys. What fraction of the students are girls?
2. (B) (C) (D)
3. Given that y= , find the value of x when y=4
4. 7 (B) 4 (C) 3(D) -3
5. If = 10 - , find the value of q

(A) (B) 1¼ (C) 1½ (D) 1

1. Find the LCM of 7xy and 6y2

(A)y (B)7xy (C) 13xy2 (D) 42xy2

1. Simplify 36y 6 + y + 2 X 4y

(A)7y (B)8y (C)15y (D) 35y

1. If y2 +16 =52, solve for y

(A)18 (B)14 (C)6 (D)3

1. If 20 is the mean of 18, 23,x,22 and 20, find x
2. 16 (B)17 (C)18 (D) 20

The table below shows the scores of students in a test. Use the information to answer questions 94 to 96

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Scores | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| No of students | 3 | 4 | 6 | 3 | 10 | 4 | 3 |

1. How many students took part in the test?
2. 30 (B)33 (C)45 (D) 58
3. What was the modal score?

(A)70 (B)60 (C)55 (D)40

1. If 45 is the pass mark, how many students passed the test?
2. 3 (B)7 (C) 26 (D) 30
3. Find the radius of a circle if the circumference is 22cm (Take =)

(A)3.6cm (B) 3½cm (C) 5cm (D) 7½cm

1. The volume of a cuboid is 1920cm3. If the area of its base is 24cm2, find its height.

(A)80cm (B) 12cm (C) 24cm (D) 64cm

1. A line that divides a circle into two equal parts is known as
2. chord (B) diameter (C) radius (D) sector
3. Find the value of -5-(-20)
4. -30 (B) -25 (C) -15 (D)15