



DUMAG
DE UNIVERSAL MATHEMATICS GENIUS

Season 5

QUIZ



Instructions:

- You are to write the correct answer (option) to the given question in the paper provided.
- You have 5 seconds to answer each question.
- You are expected to raise your answer within the given period of time.
- Please write clearly.



QUESTION 1

Express 0.65 as a fraction.

A. $\frac{2}{5}$

B. $\frac{3}{5}$

C. $\frac{13}{20}$

D. $\frac{9}{13}$

E. $\frac{8}{11}$



QUESTION 2

Find the H.C.F of 15, 20 and 35.

A.2

B.3

C.4

D.5

E. 6.



QUESTION 3

What is the place value of 4 in 1235.04?

- A. Hundreds**
- B. Hundredths**
- C. Tenths**
- D. Thousands**
- E. Units**



QUESTION 4

What is 12.8% of 250?

A. 30

B. 32

C. 34

D. 60

E. 64

QUESTION 5

Express 63025 in standard form.

A. 6.3025×10^4

B. 63.025×10^3

C. 630.25×10^2

D. $63\ 02.5 \times 10^1$

E. 63025×10^0



QUESTION 6

If 25% of a number is 750, find the number.

- A. 7000**
- B. 6000**
- C. 5000**
- D. 4000**
- E. 3000**



QUESTION 7

Given that $x:7 = 6:21$, find the value of x .

A. 2

B. 6

C. 16

D. 24

E. 27



QUESTION 8

Find the radius of a circle if the circumference is 44cm. (Take Pie = $\frac{22}{7}$)

- A. 28cm**
- B. 21cm**
- C. 14cm**
- D. 9cm**
- E. 7cm**



QUESTION 9

How many line(s) of symmetry has a square?

A.1

B.2

C.3

D.4.

E. 5



QUESTION 10

Find the square root of $6\frac{1}{4}$

- A. $\frac{1}{5}$
- B. $\frac{2}{5}$
- C. $\frac{1}{2}$
- D. 1
- E. $\frac{5}{2}$



QUESTION 11

Express 144 as a product of its prime factors.

- A. $2^3 \times 3^2$
- B. $2^4 \times 3^2$
- C. 25×3^2
- D. $2^4 \times 3^3$
- E. $2^3 \times 3^4$



QUESTION 12

Find the L.C.M of 96 and 144.

- A. 96**
- B. 102**
- C. 108**
- D. 256**
- E. 288**



QUESTION 13

A cylinder has how many faces?

- A. 0**
- B. 1**
- C. 2**
- D. 3**
- E. 4**



QUESTION 14

Calculate the volume of a cuboid 8cm long, 4cm wide and 3cm high.

- A. 12cm^3
- B. 24cm^3
- C. 32cm^3
- D. 69cm^3
- E. 96cm^3



QUESTION 15

How many vertices has a cone?

A. 0

B. 1

C. 2

D. 3

E. 4



QUESTION 16

What is the smallest number by which 12 can be multiplied to give a perfect square.

- A. 1**
- B. 2**
- C. 3**
- D. 4**
- E. 5**



QUESTION 17

**A square has a diagonal 6m long.
Calculate its area**

- A. 6m^2**
- B. 18m^2**
- C. 24m^2**
- D. 36m^2**
- E. 64m^2**



QUESTION 18

A pencil costs N5.50k while a pen costs N15.00. How much will 10 pencils and 6 pens cost?

- A. N200.00**
- B. N183.00**
- C. N150.00**
- D. N145.00**
- E. N100.00**

QUESTION 19

In a class of 53 pupils, x of them are boys. How many girls are in the class?

- A. $53x$
- B. $53 + x$
- C. $53/x$
- D. $53 - X$
- E. $\frac{x}{53}$



QUESTION 20

A bowl contains 45 oranges. If $\frac{2}{3}$ of the oranges are bad, how many are good?

- A. 40**
- B. 35**
- C. 30**
- D. 15**
- E. 10**



QUESTION 1

A basket contains 45 oranges. If $\frac{1}{3}$ of the oranges are bad, how many are good?

- A. 40**
- B. 35**
- C. 30**
- D. 15**
- E. 0**

QUESTION 2

In a class of 53 pupils, x of them are boys. How many girls are in the class?

- A. $63x$
- B. $63 + x$
- C. $63/x$
- D. $63 - X$
- E. $\frac{x}{63}$



QUESTION 3

The diagonals of a rhombus are 6m and 8cm. Calculate its area

- A. 6m^2
- B. 18m^2
- C. 24m^2
- D. 36m^2
- E. 64m^2



QUESTION 4

- The diagonals of a rhombus are 6m and 8cm. Calculate its area
- A. $6m^2$
- B. $18m^2$
- C. $24m^2$
- D. $36m^2$
- E. $64m^2$



QUESTION 5

- How many vertices has a cube?
- A. 0
- B. 2
- C. 4
- D. 6
- E. 8



QUESTION 6

- Calculate the volume of a cuboid 8cm long, 2cm wide and 6cm high.
- A. 12cm^3
- B. 24cm^3
- C. 32cm^3
- D. 69cm^3
- E. 96cm^3



QUESTION 7

- A cuboid has how many faces?
- A. 2
- B. 3
- C. 4
- D. 5
- E. 6



QUESTION 8

- Find the square root of $12\frac{1}{4}$
- A. $\frac{1}{7}$
- B. $\frac{7}{2}$
- C. $\frac{1}{2}$
- D. 1
- E. $\frac{2}{7}$



QUESTION 9

- Express 288 as a product of its prime factors.
- A. $2^3 \times 3^2$
- B. $2^4 \times 3^2$
- C. $2^5 \times 3^2$
- D. $2^4 \times 3^3$
- E. $2^3 \times 3^4$



QUESTION 10

- Find the L.C.M of 48 and 72.
- A. 48
- B. 51
- C. 54
- D. 128
- E. 144



QUESTION 11

- How many line(s) of symmetry has an equilateral triangle?
- A. 1
- B. 2
- C. 3
- D. 4.
- E. 5



QUESTION 12

- If 12.5% of a number is 400, find the number.
- A. 7000
- B. 6000
- C. 3200
- D. 3100
- E. 3000



QUESTION 13

- Given that $x:7 = 3:21$, find the value of x .
- A. 1
- B. 2
- C. 3
- D. 4
- E. 5



QUESTION 14

- How many line(s) of symmetry has an equilateral triangle?
- A. 1
- B. 2
- C. 3
- D. 4.
- E. 5



QUESTION 15

- Find the radius of a circle if the diameter is 44cm. (Take $n = 22/1$)
- A. 28cm
- B. 22cm
- C. 14cm
- D. 9cm
- E. 7cm



QUESTION 16

- **What is the place value of 0 in 1235.04?**
- **A. Hundreds**
- **B. Hundredths**
- **C. Tenths**
- **D. Thousands**
- **E. Units**



QUESTION 17

- What is 12.5% of 200?
- A. 25
- B. 30
- C. 34
- D. 60
- E. 64



QUESTION 18

- Find the radius of a circle if the diameter is 44cm.
(Take $n = 22/1$)
- A. 28cm
- B. 22cm
- C. 14cm
- D. 9cm
- E. 7cm



QUESTION 19

- Express 63036 in standard form.
- A. 6.3036×10^4
- B. 63.036×10^3
- C. 630.36×10^2
- D. $63\ 03.6 \times 10^1$
- E. 63036×10^0



QUESTION 20

- Express 0.45 as a fraction.
- A. $\frac{2}{5}$
- B. $\frac{3}{5}$
- C. $\frac{13}{20}$
- D. $\frac{9}{13}$
- E. $\frac{9}{20}$



QUESTION 21

- Find the H.C.F of 15, 25 and 45.
- A.2
- B.3
- C.4
- D.5
- E. 6

QUESTION 22

- What is the range of the following set of numbers 20, 30, 25, 24, 40, 50, 70, 80, 90, 32?
- A. 20
- B. 30
- C. 50
- D. 60
- E. 70