

NUMBER NINJAS OLYMPIADS

Grade 7-8

Instructions:

- Total Questions: **30**
- Time Allowed: **60 Minutes**
- Choose the correct option (**A, B, C, or D**)
- Each question carries **1** mark

Q1	In the data set: 3, 7, 7, 9, 12, what is the median?	
A 6	B 7	
C 8	D 9	
Q2	A dice is rolled once. What is the probability of getting an even number?	
A $\frac{1}{6}$	B $\frac{1}{3}$	
C $\frac{1}{2}$	D $\frac{2}{3}$	
Q3	The mean (average) of 4, 8, 12, and 16 is:	
A 8	B 10	
C 12	D 14	
Q4	If 5 workers can build a wall in 12 days, how many workers are needed to build the same wall in 6 days?	
A 8	B 9	
C 10	D 12	
Q5	A recipe needs 2 cups of flour for 3 people. How much flour is needed for 12 people?	
A 6	B 8	
C 9	D 10	

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Q6 A car travels 150 km in 2 hours. At the same speed, how far will it travel in 5 hours?

A 300km

B 350km

C 375km

D 400km

Q7 The ratio of boys to girls in a class is 3:5. If there are 15 boys, how many girls are there?

A 20

B 25

C 30

D 35

Q8 How many edges does a cube have?

A 6

B 10

C 8

D 12

Q9 A circle has a diameter of 14 cm. What is its radius?

A 7

B 14

C 28

D 3.5

Q10 The area of a rectangle is 72 cm^2 . Its length is 12 cm. What is its width?

A 4

B 5

C 6

D 8

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Q11 A triangle has angles 45° and 65° . What is the third angle?

A 60

B 70

C 80

D 110

Q12 The perimeter of a square is 48 cm. What is the length of one side?

A 12cm

B 10cm

C 8cm

D 16cm

Q13 Which of the following fractions is the largest?

A $5/8$

B $7/9$

C $7/1$

D $7/10$

Q14 35% of 200 is:

A 35

B 60

C 70

D 80

Q15 $0.75 \times 40 = ?$

A 25

B 30

C 32

D 35

Q16 Write $7/8$ as a decimal

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A 0.78	B 0.875
C 0.825	D 0.85

Q17 Expand: $2(3x-5)$

A $6x-10$	B $6x-5$
C $6x+10$	D $5x-10$

Q18 If you roll two fair dice, what is the probability of getting a sum of 7?

A $1/6$	B $1/8$
C $1/12$	D $5/36$

Q19 What is the next number in the sequence: 5, 9, 17, 33, ___?

A 55	B 65
C 49	D 67

Q20 How many minutes are there in $3/4$ of an hour?

A 25	B 45
C 30	D 50

Q21 What is the perimeter of a square whose area is 144 cm^2 ?

A 36 cm	B 72 cm
C 24 cm	D 48 cm

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Q22 If you buy 3 pens for \$1.50, how much for 10 pens?

- | | |
|-----------|----------|
| A \$3.50 | B \$4.50 |
| C \$15.00 | D \$5.00 |

Q23 If $a \times b = 72$ and $a + b = 18$, find a and b

- | | |
|------------|------------|
| A 12 and 6 | B 10 and 8 |
| C 14 and 4 | D 9 and 8 |

Q24 $250 \times 4 = ?$

- | | |
|--------|---------|
| A 500 | B 1000 |
| C 2500 | D 10000 |

Q25 A rectangular garden is 24 m long and 15 m wide. A path of 2 m width is built around it inside. What is the area of the path?

- | | |
|---------------------|---------------------|
| A 140 m^2 | B 160 m^2 |
| C 100 m^2 | D 120 m^2 |

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Q26 What is the value of $0.125 \times 0.8 \times 0.4$?

A 0.04

B 0.0004

C 0.4

D 0.004

Q27 If $\frac{3}{5}$ of a number is 45, what is $\frac{2}{3}$ of the same number?

A 5 hours 30 min

A 40

C 6 hours 30 min

C 60

Q28 If a recipe for 12 muffins requires 240 g of flour, how much flour is needed for 30 muffins?

A 480 g

A 600 g

C 720 g

C 900 g

Q29 A circle has a radius of 7 cm. What is its approximate circumference? (Use $\pi \approx 3.14$)

A 21.98 cm

B 49 cm

C 153.86 cm

D 43.96 cm

Q30 A pizza is cut into 8 equal slices. Ali eats 3 slices, Sara eats 2 slices. What fraction of the pizza is left?

A $\frac{3}{8}$

B $\frac{1}{2}$

C $\frac{1}{4}$

D $\frac{5}{8}$