

Instructions:

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

Q1	The measure of each interior angle of a regular polygon is 150° . The number of sides is:	
A 10	B 12	
C 14	D 16	
Q2	A chord of length 10 cm subtends an angle of 60° at the center of a circle. The radius of the circle is:	
A 5	B 10	
C 15	D 20	
Q3	The angle between the diagonals of a square is:	
A 45	B 60	
C 90	D 120	
Q4	Two supplementary angles differ by 34° . The smaller angle is:	
A 73°	B 107°	
C 80°	D 68°	
Q5	In a parallelogram, one angle is 40° more than its adjacent angle. The larger angle is:	
A 100	B 120	
C 130	D 110	

NUMBER NINJAS OLYMPIADS

Grade 9-10

Q6

In a circle, a chord of length $8\sqrt{2}$ cm subtends a right angle at the center. The radius is:

A 4cm

B 6cm

C 8cm

D 10cm

Q7

A ladder 13 m long rests against a wall. The foot is 5 m from the wall. How high up the wall does it reach?

A 10

B 12

C 11

D 13

Q8

The sum of the first 10 odd numbers is:

A 81

B 100

C 121

D 90

Q9

If $a=0.125$, $b=0.25$ and $c=0.5$, then $\frac{a \times b}{c}$ equals

A 0.0625

B 0.125

C 0.5

D 0.25

Q10

The value of $18 \times 15 - 12 \times 10 + 144 \div 12$ is:

A 162

B 152

C 148

D 158

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Q11 If the angles of a triangle are in the ratio 2 : 3 : 4, the smallest angle is:

A 30°

B 40°

C 45°

D 36°

Q12 If 5 cats catch 5 mice in 5 minutes, how many cats are needed to catch 100 mice in 100 minutes?

A 5

B 20

C 50

D 100

Q13 What comes once in a minute, twice in a moment, but never in a thousand years?

A The letter M

B The letter E

C Number 1

D The number 0

Q14 The sum of $\sqrt{196}$ and $\sqrt{121}$ is:

A 23

B 25

C 29

D 27

Q15 In a class, 40% like math, 50% like science, and 20% like both. What percentage like neither?

A 20%

B 30%

C 25%

D 35%

Q16

A bottle contains 1 liter of pure milk. 100 ml is removed and replaced with water. This process is repeated twice. The final amount of milk in the bottle is:

A 729 ml

B 900 ml

C 950 ml

D 810 ml

Q17

Expand: $(2x+10x)+(3x-5)$

A $15x-10$

B $15x-5$

C $6x-10$

D $x-10$

Q18

I add 5 to 9 and get 2. How is that possible?

A On a clock

B In base 6

C Subtracting instead

D Wrong calculation

Q19

A bat and a ball together cost \$1.10. The bat costs \$1.00 more than the ball. How much is the ball?

A 5 cents

B 20 cents

C 15 cents

D 10 cents

Q20

The value of $\sqrt{0.4 \times 0.4 \times 0.16 \times 1.21}$ is:

A 0.088

B 0.352

C 0.264

D 0.176

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Q21

If two fathers and two sons go fishing and each catches one fish, but only three fish are caught, how is that possible?

A One fish was lost

B They are grandfather, father, son

C One person caught two

D Two people didn't catch any

Q22

A number when multiplied by 3 and then divided by 2 gives 18. What is the number?

A 9

B 12

C 15

D 27

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

A clock shows 8:20. If the hour hand and minute hand are swapped, what time would it represent?

A 4:40

B 8:20

C 10:40

D 4:00

Q25

The least number that is exactly divisible by all numbers from 1 to 10 is:

A 1260

B 1680

C 2520

D 5040

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Q26

I am a three-digit number. My tens digit is 5 more than my ones digit. My hundreds digit is 8 less than my tens digit. What number am I?

A 194

B 461

C 372

D 283

Q27

A watch loses 5 minutes every hour. It was set correctly at 6:00 AM. What time will it show at 6:00 PM the same day?

A 5:00 PM

A 5:30 PM

C 5:50 PM

C 5:40 PM

Q28

Three numbers are in the ratio 3 : 4 : 5 and their LCM is 2400. Their HCF is:

A 20

A 30

C 40

C 50

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

The interior angle of a regular polygon exceeds its exterior angle by 108° . The number of sides is:

A 8

B 10

C 12

D 15