

# Titan-Genius Kidz National Arithmetic Championship-3

Question Paper

Category : **SUB - JUNIOR** (4<sup>th</sup> & 5<sup>th</sup> Std.)

- 1) When a number is put into a number machine, a different number comes out. If 2 goes in, 6 comes out. If 4 goes in, 12 comes out. If 5 goes in, 15 comes out. If 8 goes in, what number should come out?

(A) 32                      (B) 24                      (C) 16                      (D) Cannot say

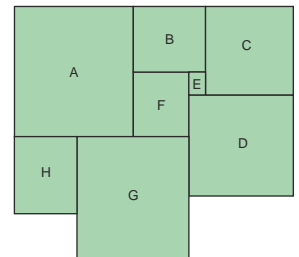


- 2) On Monday Sarah sold 54 cups of lemonade. On Tuesday she sold 71 cups of lemonade. How many more cups did she sell on Wednesday compared to Monday?

(A) 15                      (B) 16                      (C) 17                      (D) Cannot say



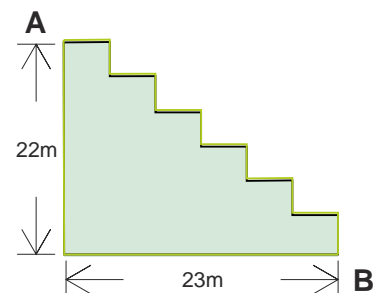
- 3) Look at this picture of squares. The area of square F is 16 square units. The area of square B is 25 square units. The area of square H is 25 square units. Find the area for square D and square E.



- 4) Four families each brought the same number of chairs to a block party. Three more chairs are needed to seat all 27 of the participants. How many chairs did each family bring?



- 5) An ant is crawling from point A to point B using the stair case. How many meters will it crawl to reach point B?



- 6) Leena and her mother made a quilt. They used 56 squares and made 8 rows. How many squares are in each row?

(A) 6                      (B) 7                      (C) 8                      (D) 9

7) The Hulk is 3 cm taller than Tarzan and 4 cm shorter than Superman. If Superman's height is 2 meters, then Tarzan's height is?

- A) 193 cm                      B) 197 cm                      C) 203 cm                      D) 199 cm



8) Jenny bought 7 t-shirts, one for each of her seven brothers, for \$9.95 each. The cashier charged her an additional \$13.07 in sales tax. She left the store with a balance of \$7.28. How much money did Jenny start with?



9) If you saved \$2.00 on January 1, \$4.00 on February 1, \$8.00 on March 1, \$16.00 on April 1, and so on. How much money would you save in one year?



10) Mr. Mason asked the children to open their math books such that the facing page numbers add up to 85. To which pages should the children turn?

11) Mary and Jason were making propellers for their wooden helicopters. Mary put a number on her propeller and noticed that when she turned the propeller she had the same number.



Jason was trying to think of a number that he could put on his propeller that had the same rotational symmetry (looks the same turned upside down). What is the next larger number that has this property?

12) Mr. and Mrs. Callahan and their 3 children paid \$7.00 for tickets. Which game do they plan to see?

- |             |               |                 |
|-------------|---------------|-----------------|
| SOFTBALL:   | Adults \$2.00 | Children \$1.00 |
| BASKETBALL: | Adults \$3.00 | Children \$1.50 |
| SOCCER:     | Adults \$5.00 | Children \$2.50 |



13) The chart shows the number of eggs produced on a farm in the first five months of the year.

Month	Number of Eggs
January	596
February	422
March	587
April	490
May	516



Which of the following statements is true ?

- (A) The number of eggs produced in March was less than in May.  
 (B) The number of eggs produced in April was less than in February.  
 (C) The number of eggs produced in January was less than in March.  
 (D) The number of eggs produced in May was less than in March.

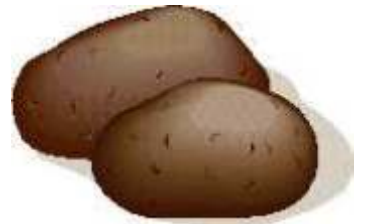


- 14) A man needs six pieces of wire, each 218 centimeters long. Wire is sold only by the meter. How many meters of wire must the man buy at the minimum?
- A) 13                      B) 14                      C) 18                      D) 1308

- 15) Vladimir builds 3 legged stools and 4 legged tables. Last month he used 72 legs to build 3 more stools than tables. How many stools and how many tables did he build?



- 16) A farmer grows 196 pounds of potatoes. He sells them to a grocer who divides them into 5 pound and 2 pound bags. If the grocer uses the same number of 5 pound and 2 pound bags, how many bags of each did he use?



- 17) Which is greater?  
A) 110% of 20                      B) 100% of 27                      C) neither; they are equal

- 18) Which set of numbers is arranged in ascending order?  
A)  $0.47 < 74 < 87.4$                       B)  $87.4 < 74 < 0.47$                       C)  $74 < 87.4 < 0.47$

- 19) The missing number in the series is?



- 20) Replace x in the number 898,35x, with a digit in such a way that the number is divisible by 7

- 21) Which is more? 10 centimeters or 100 millimeters? \_\_\_\_\_  
A) 10 centimeters                      B) 100 millimeters                      C) neither; they are equal

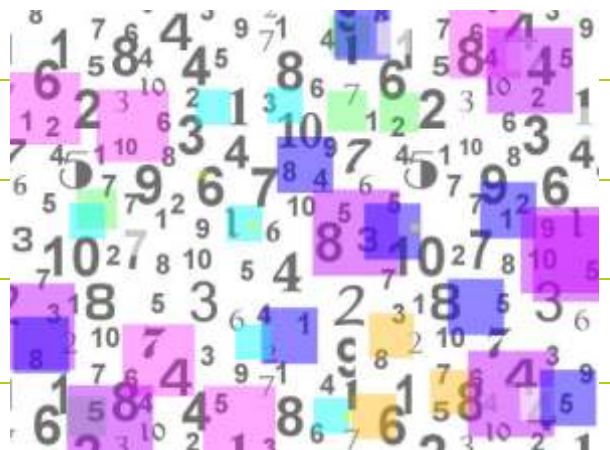
22)  $29 - 11 = 18 + ?$

23)  $50 \times 200 = 10500 - ?$

24)  $39 - 29 + 49 - 39 + 29 - 19 + 9 - 39 = ?$

25)  $99 + 999 + 9999 + 99999 - 99999 = ?$

26)  $4598 + 2122 + 3280 = ?$



27)  $3500 \times 22 = ?$

28)  $21 + 31 + 41 + 51 + 61 + 39 + 49 + 59 + 69 + 79 = ?$

29)  $95 + 90 + 85 + 80 + 75 + 70 + 50 - 95 - 90 - 85 - 75 - 70 = ?$

30) If  $90 \text{ 😊} 9 = 10$ , then what should be in the box?   $\text{😊} 8 = 11$

31) Multiply 210 with  $(210 / 420)$ . The product is

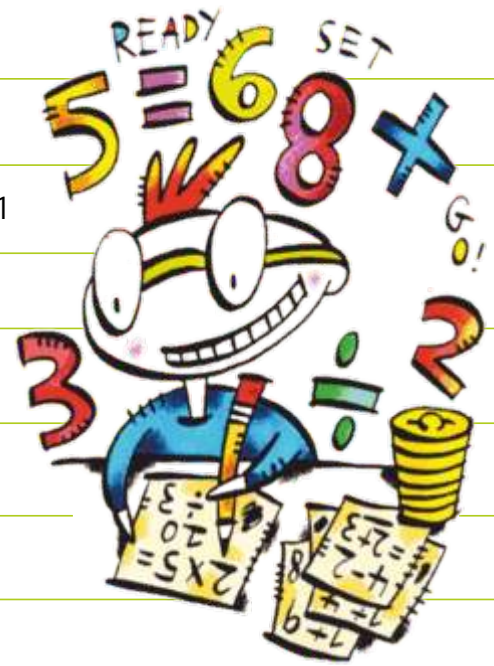
32)  $9 \times (2 + 1) \times 3 \times (4 - 4) + 2 = ?$

33)  $909 / 9 = ?$

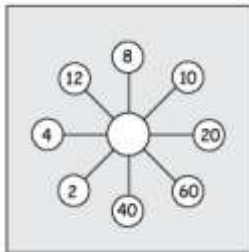
34)  $3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 - 1 - 2 = ?$

35)  $98765 + 87654 + 76543 = ?$

36) If  $x \text{ 😊} y = (x-y) \times (x+y)$ ;  $5 \text{ 😊} 2 = ?$



37) What number should be placed in the centre ?



38) The missing number is:

- 8    32    36    144    148    ?    596

39) Which number completes the puzzle?

- 1    2    5    12    29    70    169

40) Complete the table using the rule: Subtract 5 from "In"

In	14		6	13					82
Out		2	1		11	97	15	72	