

CNC

CzechSkills 2024 – CNC frézovanie



CNC FRÉZOVANIE

CzechSkills 2024

Hodnotenie



# Česká republika hledá šampiona v CNC frézování 2024!



## Obsah

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## I. Hodnotenie

Projekt bude spolu so všetkými vyplnenými alebo vytvorenými dokumentmi a osobným vyhlásením zaslaný na nižšie uvedenú adresu na posúdenie a hodnotenie.

### Príloha:

- Protokol hodnotenia



CNC Milling  
Assesment template.pdf

- Test logického uvažovania

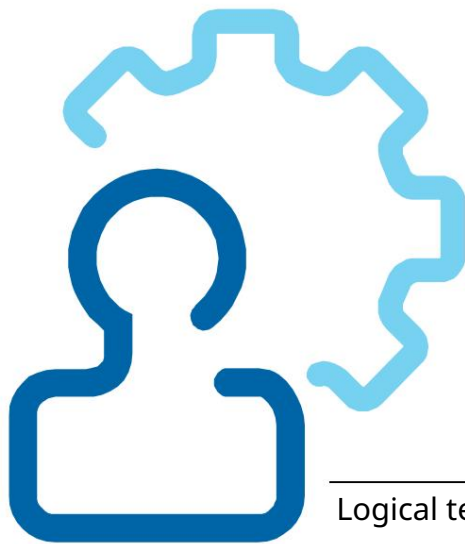


CNC Milling  
Speed-Logiktest.pdf

| Evaluation protocol                                                                   | Max. Score achieved | time/min | Name Competitor                                                                                              | School/company |
|---------------------------------------------------------------------------------------|---------------------|----------|--------------------------------------------------------------------------------------------------------------|----------------|
|                                                                                       |                     |          |                                                                                                              | ZČU Plzeň      |
| Part 1 – Accuracy Assessment                                                          |                     |          | <br><br><b>HEIDENHAIN</b> |                |
| Verification of the prescribed 31 points based on measurements protocol from Renishaw | 98                  |          |                                                                                                              |                |
|                                                                                       |                     |          |                                                                                                              |                |
| Part 2 - Questions and Answers (talk with experts)                                    |                     |          |                                                                                                              |                |
| questions on selected technology and technology and inspection measurement            | 25                  |          |                                                                                                              |                |
| technical english                                                                     | 3                   |          |                                                                                                              |                |
| communication Skills                                                                  | 2                   |          |                                                                                                              |                |
| technical documentation for qualification                                             | 5                   |          |                                                                                                              |                |
| workpiece surface, visual inspection                                                  | 5                   |          |                                                                                                              |                |
|                                                                                       |                     |          | Jury: Jakub Vacek/Eva Klocová<br>Signature<br>signature<br><br><b>HEIDENHAIN</b><br><br>date:<br>place       |                |
|                                                                                       |                     |          |                                                                                                              |                |
|                                                                                       |                     |          |                                                                                                              |                |
| Part 3 - Speed-Logiktest/SwissSkills                                                  |                     |          |                                                                                                              |                |
| speed test for geometry and mathematics                                               | 12                  | 20       |                                                                                                              |                |
|                                                                                       |                     |          |                                                                                                              |                |
| TOTAL                                                                                 | 150                 |          |                                                                                                              |                |

# Speed-Logiktest für Polymechaniker

## QUALIFICATION CNC Milling Championship



Logical test pre engineering disciplines: Qualification –  
CNC Milling

Logický test je navrhnutý pre kvalifikáciu skúšobných disciplín v Skills Czech Republic competition.

The maximum time allowed for solving the task je 25 minút

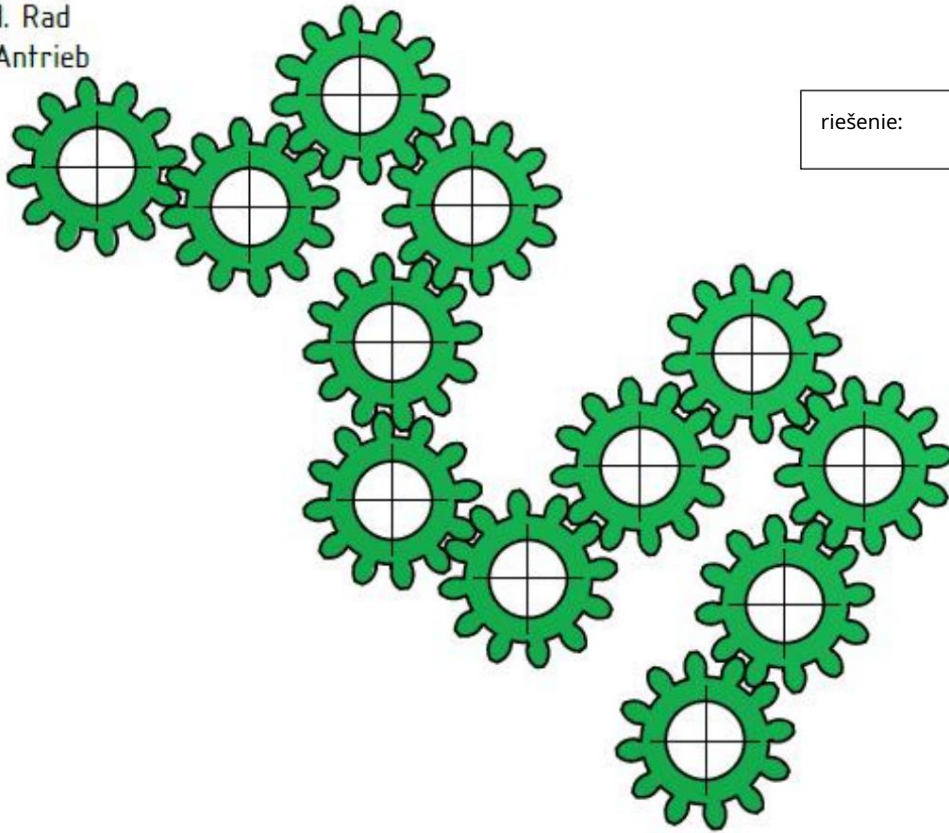
V teste boli primárne zahrnuté logické reasoning, identifikácia, similarities, meaningful completion of sequences, a skupiny založené na shared characteristics.

V teste sa používajú základné princípy fyzikálnych a mechanických.

Schopnosť myslieť logicky a abstraktne je kľúčovým prerrequisitou pre úspešné zapojenie do Skills competitions in engineering disciplines.

1. Prvý gear is driven by electric motor in a clockwise direction. What is the direction of rotation of the last gear?

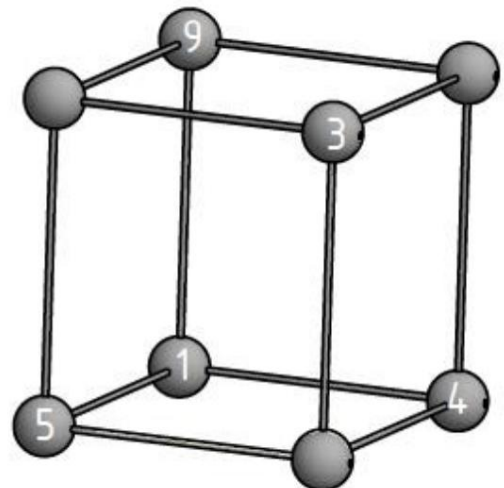
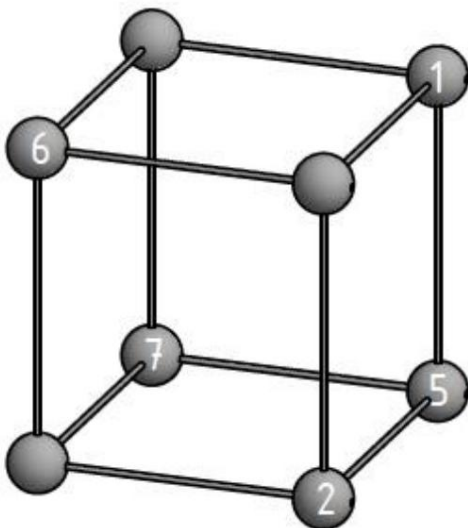
1. Rad  
Antrieb



riešenie:

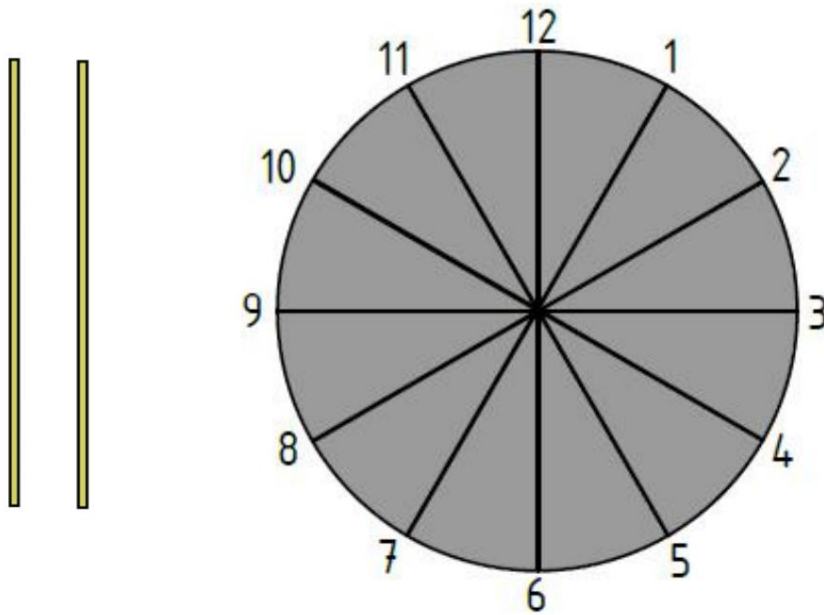
| Points | Achieved |
|--------|----------|
| 1      |          |

2. The cube is shown in two positions. Fill in missing numbers on each cube.



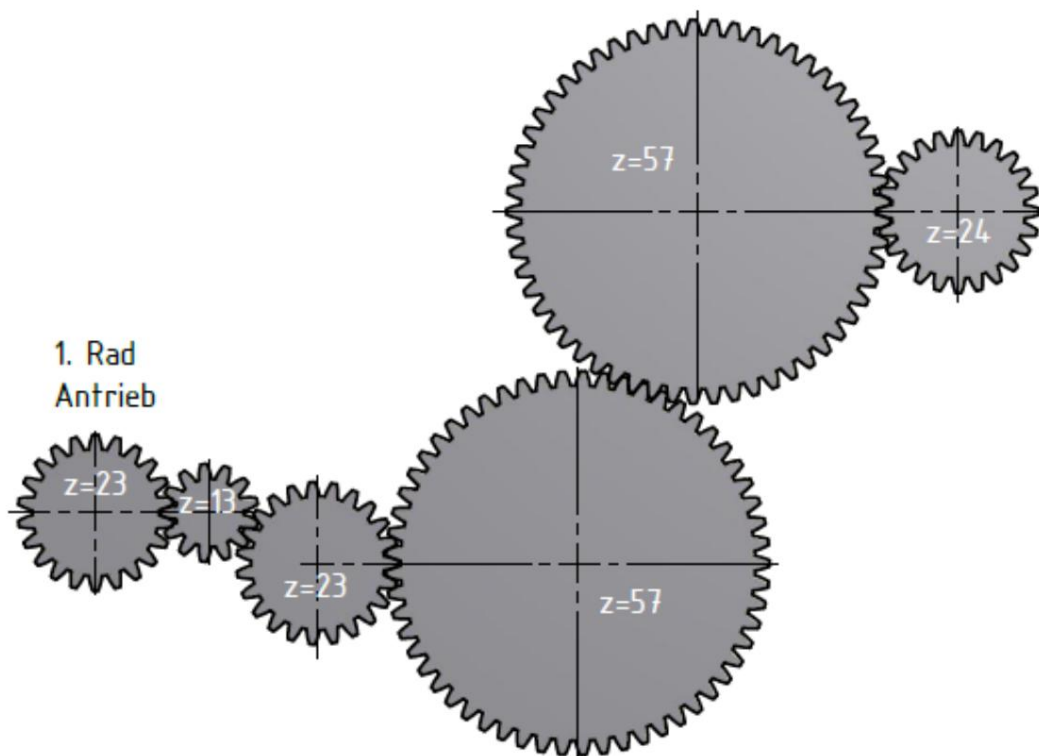
| Points | Achieved |
|--------|----------|
| 3      |          |

3. Rozdeľte clonu tvár do troch častí pomocou dvoch priamych línií, takže všetky časti sa nachádzajú štyri čísla, ktoré sú rovnaké v každej časti.



| Points | Achieved |
|--------|----------|
| 2      |          |

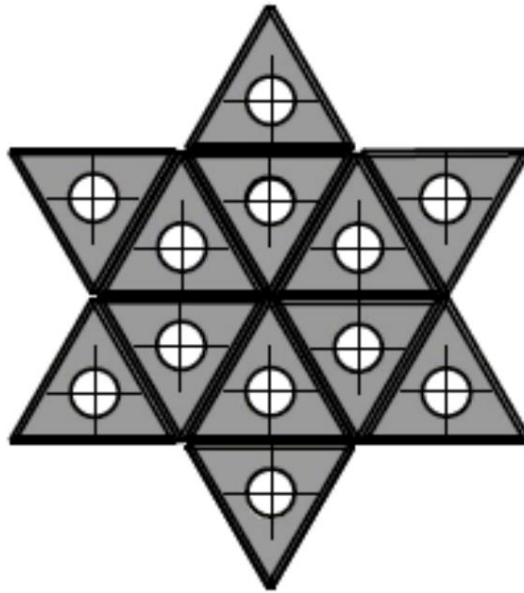
4. Does the last gear rotate faster or slower than the first one?



Answer:

| Points | Achieved |
|--------|----------|
| 1      |          |

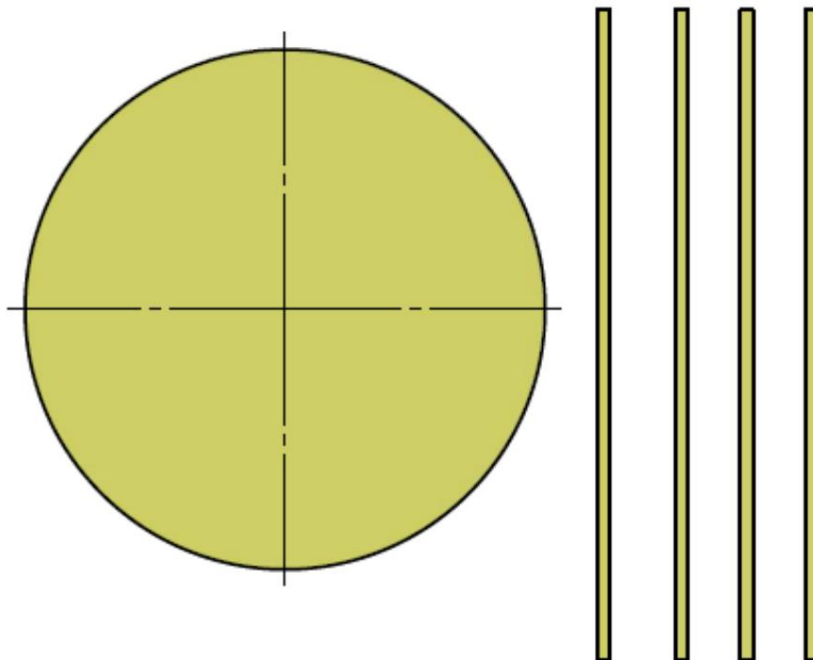
5. How many triangles are ther in this star?



| Points | Achieved |
|--------|----------|
| 2      |          |

Answer:

6. What ist he maximum počet prvkov a kruhu môže byť divided into using four straight lines! The parts do not need to be of equal size.



Answer:

| Points | Achieved |
|--------|----------|
| 2      |          |

8. Counting with pictures . Which symbol represents which number?

|  |   |   |     |
|--|---|---|-----|
|  | X |   | = 8 |
|  | + | = |     |
|  | : | = |     |
|  | - | = |     |

|   |  |
|---|--|
| 8 |  |
|   |  |
|   |  |
|   |  |

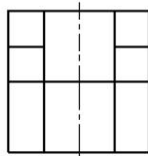
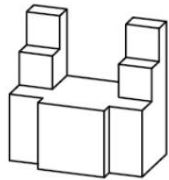
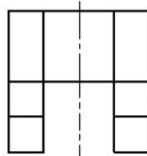
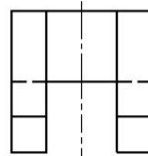
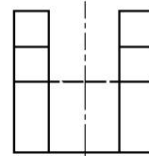
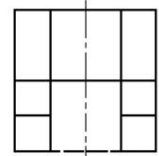
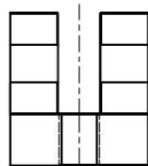
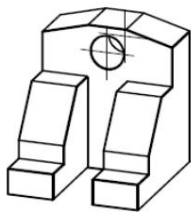
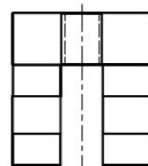
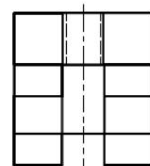
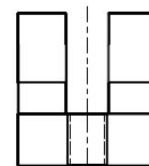
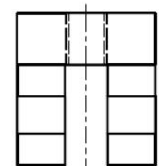
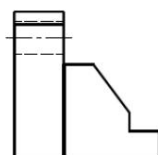
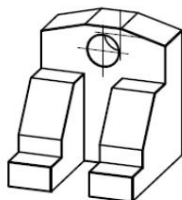
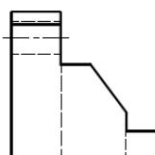
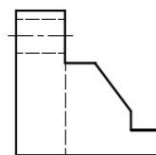
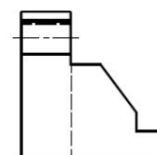
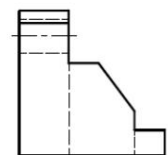
| Points | Achieved |
|--------|----------|
| 3      |          |

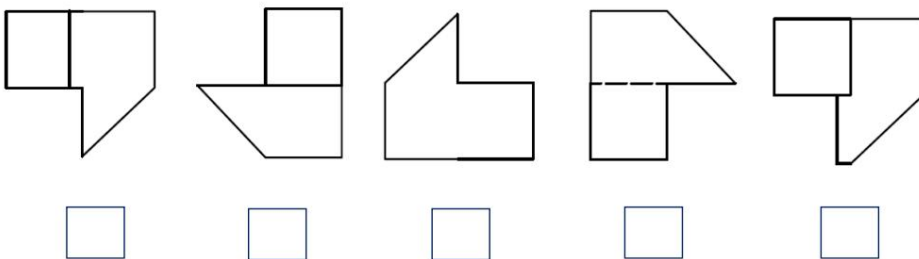
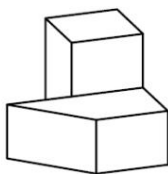
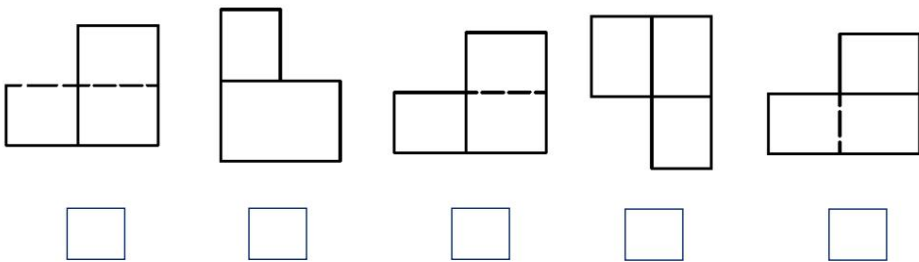
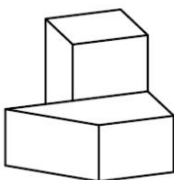
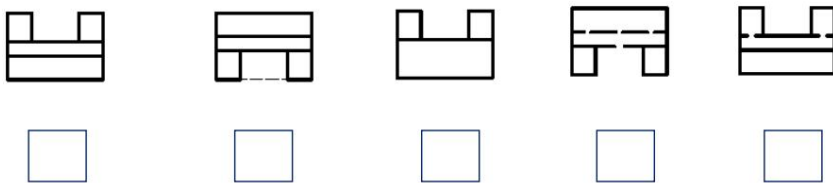
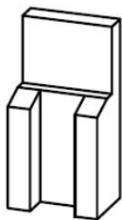
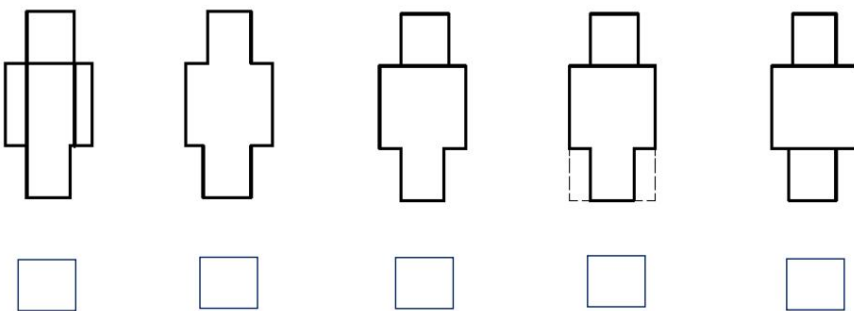
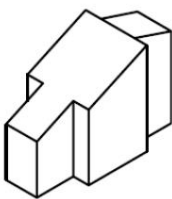
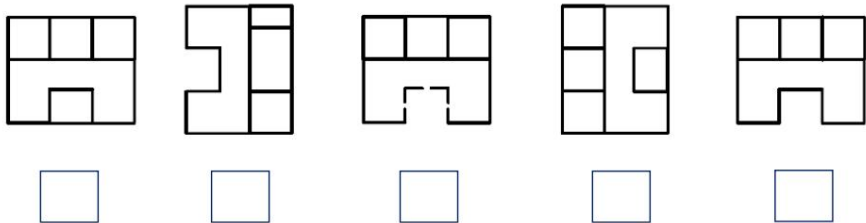
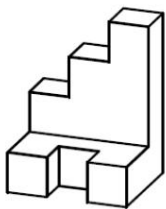
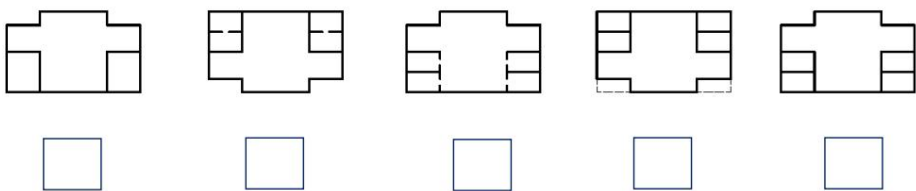
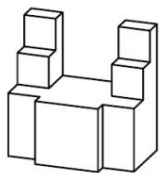
9. Fill in the numbers in the sequence of data distribution logic.

|     |     |     |     |      |  |
|-----|-----|-----|-----|------|--|
| 1   | 2   | 6   | 15  | 31   |  |
| 5   | 17  | 28  | 38  | 47   |  |
| 4   | 16  | 6   | 36  | 26   |  |
| 1/3 | 2/3 | 2/9 | 4/9 | 3/27 |  |
| 10  | 20  | 12  | 18  | 14   |  |

| Points | Achieved |
|--------|----------|
| 5      |          |

14. Find the matching view. Mark the correct answer with a cross.


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| Points | Achieved       |
|--------|----------------|
| 9      |                |
| TOTAL  | TOTAL ACHIEVED |
| 28     |                |