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| --- | --- |
| **Subject:** | Math |
| **Title:** | Calculating Goaltender Save Percentage |
| **Grade Level:** | 6 |
| **Purpose:** | Students analyze goaltender statistics in last year’s World Junior Tournament to calculate the save percentage for the goalie in each game. |
| **Curricular**  **Connections:** | * Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially and symbolically. |
| **Materials:** | * **“Calculating Goaltender Save Percentage”** worksheet * Calculator (teacher discretion) |
| **Activity:** | 1. Ask students why we use percentage and what this tells us. 2. Explain to students that records are kept each game of how many shots are fired on net, how many are saved, and how many go in. When we find the save percentage of the goalie, we can see how well the goalie did in a game. 3. Review the process of finding percentage. Identify what numbers the students are to use from “goals against”, “shots against”, and “saves” to calculate the save percentage. 4. Hand out worksheet and check for understanding. |
| **Extension:** | Students can look at the results for the 2018 World Junior Tournament, calculate the save percentage for the goalies, and compare with last year’s tournament. |
| **Assessment:** | Student is able to:   * demonstrate an understanding of percent * accurately use the data to solve problems |

**Calculating Goaltender Save Percentage**

**Name:**

**Using the data below calculate the saves percentage for each game:**

**GA- Goals Against** **SA- Shots Against** **SV- Saves**

**TUESDAY, DECEMBER 26, 2017 CanaDa vs FINLAND (4-2)**

| **Player** | **GA** | **SA** | **SV** | **Save** |
| --- | --- | --- | --- | --- |
| Carter Hart (Canada) | 2 | 31 | 29 | **Percentage:** |

### WEDNESDAY, DECEMBER 27, 2017 Canada vs SLOVAKIA (6-0)

| **Player** | **GA** | **SA** | **SV** | **Save** |
| --- | --- | --- | --- | --- |
| Colton Point (Canada) | 0 | 20 | 20 | **Percentage:** |

### FRIDAY, DECEMBER 29, 2017 Canada vs UNITED STATES (3-4) \*SHOOTOUT

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| --- |
|  |
| **Player** | **GA** | **SA** | **SV** | **Save** |
| Carter Hart (Canada) | 3 | 35 | 32 | **Percentage:** |

### Saturday, december 30, 2017 Canada Vs denmark (8-0)

| **Player** | **GA** | **SA** | **SV** | **Save** |
| --- | --- | --- | --- | --- |
| Carter Hart (Canada) | 0 | 18 | 18 | **Percentage:** |

### Tuesday, JANUARY 2, 2018 Canada vs switzerland (8-2)

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| --- |
|  |
| **Player** | | **GA** | **SA** | **SV** | **Save** |
| Carter Hart (Canada) | | 2 | 15 | 13 | **Percentage:** |

### THURSDAY, JANUARY 4, 2018 Canada VS CZECH REPUBLIC (7-2)

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|  |
| **Player** | **GA** | **SA** | **SV** | **Save** |
| Carter Hart (Canada) | 2 | 20 | 18 | **Percentage:** |

### Friday, JANUARY 5, 2018 Canada vs sweden (3-1)

| **Player** | **GA** | **SA** | **SV** | **Save** |
| --- | --- | --- | --- | --- |
| Carter Hart (Canada) | 1 | 36 | 35 | **Percentage:** |

**Calculating Save Percentage (Continued)**

Use the save percentages you calculated above to answer the questions below:

1. Does a goalie want a high percent or a low percent for their save percentage? Why?
2. What game did the goalie save the most goals in?
3. What game had the best save percentage?
4. Are they the same game?
5. Does a high save percentage mean Canada won the game? Why or why not?
6. Why does looking at game save percentage give us a better idea of how the goalie did than just looking at the score?