Is there a relationship between Innings Pitched and Strike-Outs?

1. Graph the following data.
2. Determine the equation that represents the best-fit line.
3. Make 3 predictions based on the equation.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Player | IP | SO |  | Player | IP | SO |
| Kershaw, C | 233.1 | 248 |  | McCarthy, B | 170.2 | 123 |
| Halladay, R | 233.2 | 220 |  | Karstens, J | 162.1 | 96 |
| Lee, C | 232.2 | 238 |  | Santana, E | 228.2 | 178 |
| Verlander, J | 251 | 250 |  | Lohse, K | 188.1 | 111 |
| Weaver, J | 235.2 | 198 |  | Harrison, M | 185.2 | 126 |
| Vogelsong, R | 179.2 | 139 |  | Carpenter, C | 237.1 | 191 |
| Lincecum, T | 217 | 220 |  | Hernandez, F | 233.2 | 222 |
| Hamels, C | 216 | 194 |  | Latos, M | 194.1 | 185 |
| Shields, J | 249.1 | 225 |  | Lester, J | 191.2 | 182 |
| Fister, D | 216.1 | 146 |  | Hudson, D | 222 | 169 |
| Kennedy, I | 222 | 198 |  | Rodriguez, W | 191 | 166 |
| Cain, M | 221.2 | 179 |  | Price, D | 224.1 | 218 |
| Beckett, J | 193 | 175 |  | Ogando, A | 169 | 126 |
| Romero, R | 225 | 178 |  | Gallardo, Y | 207.1 | 207 |
| Wilson, C | 223.1 | 206 |  | Marcum, S | 200.2 | 158 |
| Hellickson, J | 189 | 117 |  | Garcia, J | 194.2 | 156 |
| Sabathia, C | 237.1 | 230 |  | Buehrle, M | 205.1 | 109 |
| Kuroda, H | 202 | 161 |  | Chacin, J | 194 | 150 |
| Gonzalez, G | 202 | 197 |  | Harang, A | 170.2 | 124 |
| Haren, D | 238.1 | 192 |  | Maholm, P | 162.1 | 97 |
| Masterson, J | 216 | 158 |  | Sanchez, A | 196.1 | 202 |
| Bumgarner, M | 204.2 | 191 |  | Wolf, R | 212.1 | 134 |
| Hudson, T | 215 | 158 |  | Vazquez, J | 192.2 | 162 |
| Dickey, R | 208.2 | 134 |  | Saunders, J | 212 | 108 |
| Garza, M | 198 | 197 |  | Nova, I | 165.1 | 98 |