**Schreib die Quadrate der Zahlen 1-20 auf und lerne sie auswendig:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  |  |  |  |  |  |  |  |  |  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|  |  |  |  |  |  |  |  |  |  |

**Nullen und Dezimalstellen verdoppeln sich beim Quadrieren!**

Beispiel:

12² = 144 15² = 225

120² = 14400 1,5² = 2,25

1200² = 1440000 0,15² = 0,0225

**Quadriere und beachte die Anzahl der Nullen bzw. Dezimalstellen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 10² |  |  | 0,3² |  |  | 200² |  |
| 0,5² |  |  | 1,2² |  |  | 0,15² |  |
| 3000² |  |  | 0,17² |  |  | 1,9² |  |
| 2,0² |  |  | 1,50² |  |  | 11,0² |  |
| 0,012² |  |  | 0,13² |  |  | 140² |  |
| 1600² |  |  | 9000² |  |  | 1,5² |  |

**Welche positive Zahl wurde quadriert, um dieses Ergebnis zu erhalten?**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100 | 361 | 36 | 64 | 225 | 169 | 49 | 144 | 196 | 121 |
|  |  |  |  |  |  |  |  |  |  |
| 324 | 256 | 289 | 4 | 25 | 16 | 9 | 81 | 1 | 400 |
|  |  |  |  |  |  |  |  |  |  |

**Berechne den Flächeninhalt der folgenden Quadrate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| a = 5 m  A = a²  A = 5²  **A = m²** | a = 17 m  A = a²  A =  **A = m²** | a = 20 cm  A =  A =  **A = cm²** | a = 190 mm  A =  A =  **A = mm²** | a = 0,9 dm  A =  A =  **A = dm²** |