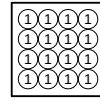
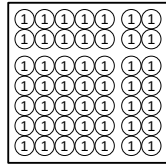
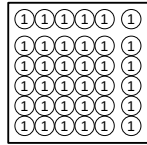
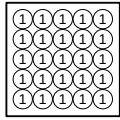
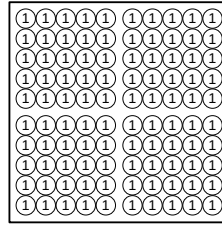
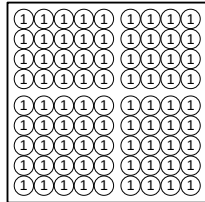
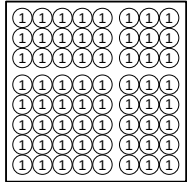
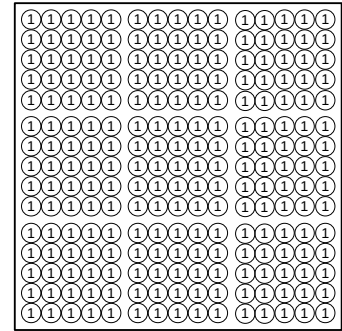


Trainiere quadrierte Zahlen (Zahlen hoch 2)

Name, Datum: _____

Max hat Taler quadratisch ausgelegt. Bestimme genau wie im Beispiel gezeigt jeweils ihre Anzahl.





$3 \cdot 3 = 3^2 = 9$

Berechne nun quadrierte Zahlen. Schreibe als Zwischenschritt das zugehörige Produkt.

Beispiel: $5^2 = 5 \cdot 5 = 25$

(Sprich: 5 quadriert sind 5 mal 5 gleich 25)

$16^2 =$ _____

$11^2 =$ _____

$15^2 =$ _____

$7^2 =$ _____

$8^2 =$ _____

$14^2 =$ _____

$2^2 =$ _____

$12^2 =$ _____

$4^2 =$ _____

$3^2 =$ _____

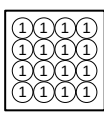
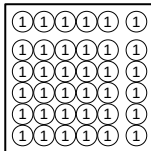
$1^2 =$ _____

$6^2 =$ _____

$13^2 =$ _____

$10^2 =$ _____

$9^2 =$ _____


 $+$

 $= 4^2 + 6^2 = 16 + \underline{\quad} = \underline{\quad}$

Berechne das Ergebnis dieser Summen

Beispiel: $5^2 + 11^2 = 25 + 121 = 146$

$16^2 + 0^2 =$ _____

$11^2 + 5^2 =$ _____

$15^2 + 1^2 =$ _____

$7^2 + 9^2 =$ _____

$8^2 + 8^2 =$ _____

$14^2 + 2^2 =$ _____

$2^2 + 14^2 =$ _____

$12^2 + 4^2 =$ _____

$4^2 + 12^2 =$ _____

$3^2 + 13^2 =$ _____

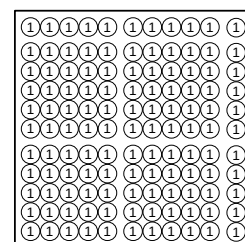
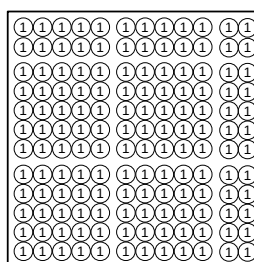
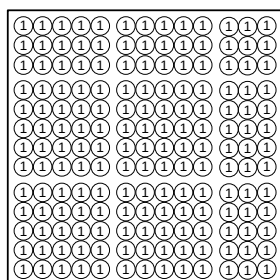
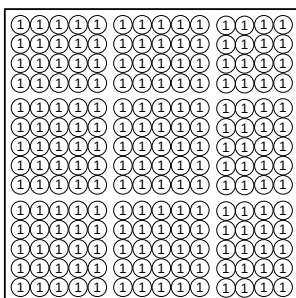
$1^2 + 15^2 =$ _____

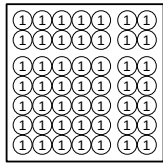
$6^2 + 10^2 =$ _____

$13^2 + 3^2 =$ _____

$10^2 + 6^2 =$ _____

$9^2 + 7^2 =$ _____





$$= 7^2 - \underline{\quad} = 49 - \underline{\quad} = \underline{\quad}$$



Berechne das Ergebnis dieser Differenzen

Beispiel: $16^2 - 1^2 = 256 - 1 = 255$

$$10^2 - 7^2 = \underline{\hspace{2cm}}$$

$$7^2 - 4^2 = \underline{\hspace{2cm}}$$

$$10^2 - 7^2 = \underline{\hspace{2cm}}$$

$$6^2 - 3^2 = \underline{\hspace{2cm}}$$

$$5^2 - 2^2 = \underline{\hspace{2cm}}$$

$$9^2 - 6^2 = \underline{\hspace{2cm}}$$

$$10^2 - 7^2 = \underline{\hspace{2cm}}$$

$$8^2 - 5^2 = \underline{\hspace{2cm}}$$

$$8^2 - 5^2 = \underline{\hspace{2cm}}$$

$$9^2 - 6^2 = \underline{\hspace{2cm}}$$

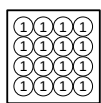
$$10^2 - 7^2 = \underline{\hspace{2cm}}$$

$$7^2 - 4^2 = \underline{\hspace{2cm}}$$

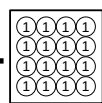
$$8^2 - 5^2 = \underline{\hspace{2cm}}$$

$$6^2 - 3^2 = \underline{\hspace{2cm}}$$

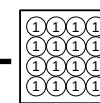
$$5^2 - 2^2 = \underline{\hspace{2cm}}$$



+



+



$$= 3 \cdot 4^2 = 3 \cdot \underline{\quad} = \underline{\quad}$$

Beispiel: $2 \cdot 9^2 = 2 \cdot 9 \cdot 9 = 162$

$$2 \cdot 16^2 = \underline{\hspace{2cm}}$$

$$2 \cdot 11^2 = \underline{\hspace{2cm}}$$

$$2 \cdot 15^2 = \underline{\hspace{2cm}}$$

$$3 \cdot 7^2 = \underline{\hspace{2cm}}$$

$$3 \cdot 8^2 = \underline{\hspace{2cm}}$$

$$3 \cdot 14^2 = \underline{\hspace{2cm}}$$

$$5 \cdot 2^2 = \underline{\hspace{2cm}}$$

$$5 \cdot 12^2 = \underline{\hspace{2cm}}$$

$$5 \cdot 4^2 = \underline{\hspace{2cm}}$$

$$4 \cdot 3^2 = \underline{\hspace{2cm}}$$

$$4 \cdot 1^2 = \underline{\hspace{2cm}}$$

$$4 \cdot 6^2 = \underline{\hspace{2cm}}$$

$$10 \cdot 13^2 = \underline{\hspace{2cm}}$$

$$10 \cdot 10^2 = \underline{\hspace{2cm}}$$

$$10 \cdot 9^2 = \underline{\hspace{2cm}}$$

Beispiel: $2 \cdot 2^2 + 2 = 2 \cdot 2 \cdot 2 + 2 = 10$

$$2 \cdot 11^2 + 2 = \underline{\hspace{2cm}}$$

$$2 \cdot 7^2 + 2 = \underline{\hspace{2cm}}$$

$$2 \cdot 10^2 + 2 = \underline{\hspace{2cm}}$$

$$2 \cdot 5^2 + 3 = \underline{\hspace{2cm}}$$

$$2 \cdot 5^2 + 3 = \underline{\hspace{2cm}}$$

$$2 \cdot 9^2 + 3 = \underline{\hspace{2cm}}$$

$$2 \cdot 1^2 + 5 = \underline{\hspace{2cm}}$$

$$2 \cdot 8^2 + 5 = \underline{\hspace{2cm}}$$

$$2 \cdot 3^2 + 5 = \underline{\hspace{2cm}}$$

$$2 \cdot 2^2 + 4 = \underline{\hspace{2cm}}$$

$$2 \cdot 1^2 + 4 = \underline{\hspace{2cm}}$$

$$2 \cdot 4^2 + 4 = \underline{\hspace{2cm}}$$

$$2 \cdot 9^2 + 10 = \underline{\hspace{2cm}}$$

$$2 \cdot 7^2 + 10 = \underline{\hspace{2cm}}$$

$$2 \cdot 6^2 + 10 = \underline{\hspace{2cm}}$$

Beispiel: $3 \cdot 11^2 - 2 \cdot 5^2 = 3 \cdot 121 - 2 \cdot 25 = 313$

$$3 \cdot 10^2 - 2 \cdot 10^2 + 10 = \underline{\hspace{2cm}}$$

$$3 \cdot 7^2 - 2 \cdot 7^2 + 7 = \underline{\hspace{2cm}}$$

$$3 \cdot 10^2 - 2 \cdot 10^2 + 10 = \underline{\hspace{2cm}}$$

$$3 \cdot 6^2 - 2 \cdot 6^2 + 6 = \underline{\hspace{2cm}}$$

$$3 \cdot 5^2 - 2 \cdot 5^2 + 5 = \underline{\hspace{2cm}}$$

$$3 \cdot 9^2 - 2 \cdot 9^2 + 9 = \underline{\hspace{2cm}}$$

$$4 \cdot 10^2 - 3 \cdot 10^2 + 10 = \underline{\hspace{2cm}}$$

$$4 \cdot 8^2 - 3 \cdot 8^2 + 8 = \underline{\hspace{2cm}}$$

$$4 \cdot 8^2 - 3 \cdot 8^2 + 8 = \underline{\hspace{2cm}}$$

$$5 \cdot 9^2 - 3 \cdot 9^2 + 9 = \underline{\hspace{2cm}}$$

$$5 \cdot 10^2 - 3 \cdot 10^2 + 10 = \underline{\hspace{2cm}}$$

$$5 \cdot 7^2 - 3 \cdot 7^2 + 7 = \underline{\hspace{2cm}}$$

$$6 \cdot 8^2 - 4 \cdot 8^2 + 8 = \underline{\hspace{2cm}}$$

$$6 \cdot 6^2 - 4 \cdot 6^2 + 6 = \underline{\hspace{2cm}}$$

$$6 \cdot 5^2 - 4 \cdot 5^2 + 5 = \underline{\hspace{2cm}}$$