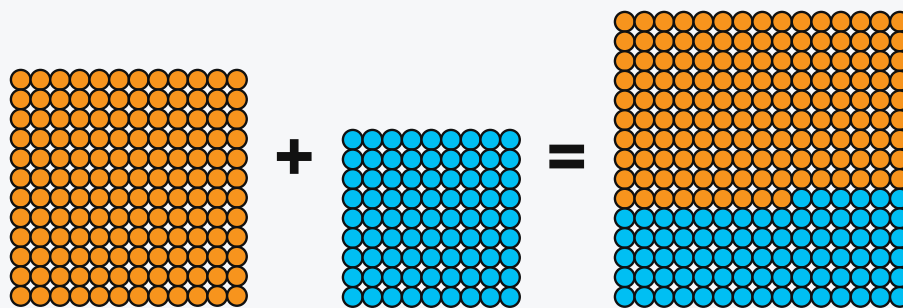


Pythagoras

Name _____

The squares on the two **short** sides pour into the square on the **long** side and fit exactly. Add them, or take one away.

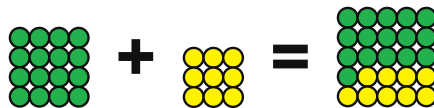
EXAMPLE



long side 15: $15 \times 15 =$ 225

one short side 12: $12 \times 12 =$ 144

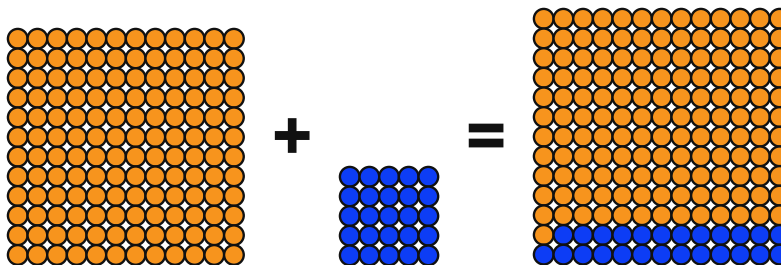
$225 - 144 =$ 81 , so the other side is 9



$4 \times 4 =$ _____

$3 \times 3 =$ _____

together _____ $=$ _____ $\times$ _____ : the long side is _____



$12 \times 12 =$ _____

$5 \times 5 =$ _____

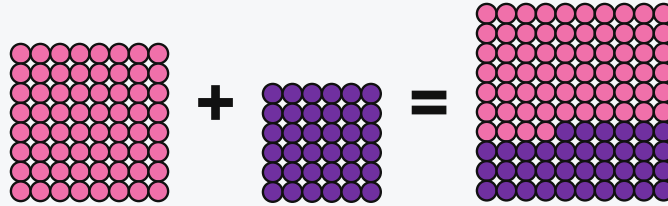
together _____ $=$ _____ $\times$ _____ : the long side is _____

Pythagoras

Name _____

The squares on the two **short** sides pour into the square on the **long** side and fit exactly. Add them, or take one away.

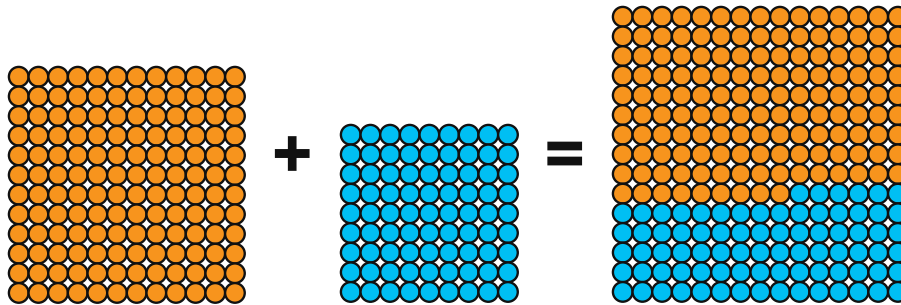
EXAMPLE



$$\text{long side } 10: 10 \times 10 = \underline{100}$$

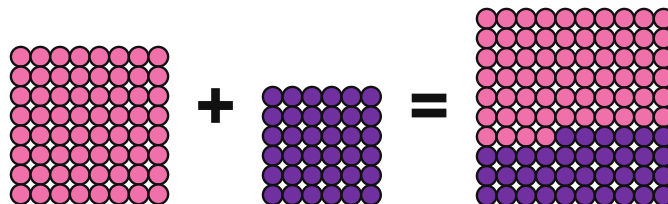
$$\text{one short side } 8: 8 \times 8 = \underline{64}$$

$$100 - 64 = \underline{36}, \text{ so the other side is } \underline{6}$$



$$12 \times 12 = \underline{\quad\quad\quad} \quad 9 \times 9 = \underline{\quad\quad\quad}$$

$$\text{together } \underline{\quad\quad\quad} = \underline{\quad\quad\quad} \times \underline{\quad\quad\quad} : \text{ the long side is } \underline{\quad\quad\quad}$$



$$8 \times 8 = \underline{\quad\quad\quad} \quad 6 \times 6 = \underline{\quad\quad\quad}$$

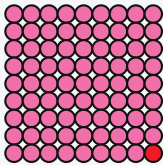
$$\text{together } \underline{\quad\quad\quad} = \underline{\quad\quad\quad} \times \underline{\quad\quad\quad} : \text{ the long side is } \underline{\quad\quad\quad}$$

Squares

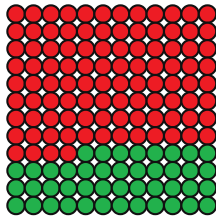
Name _____

Side given? Count all the dots. **All the dots given?** Count the side.

EXAMPLE



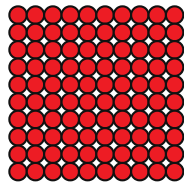
$9 \times 9 = 81$



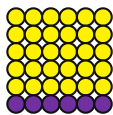
_____ $\times$ _____ = 144



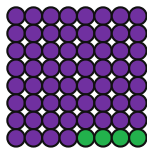
$5 \times 5 =$ _____



$10 \times 10 =$ _____



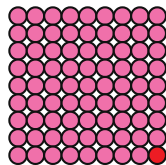
$6 \times 6 =$ _____



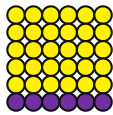
_____ $\times$ _____ = 64



$3 \times 3 =$ _____



_____ $\times$ _____ = 81



_____ $\times$ _____ = 36



$2 \times 2 =$ _____



_____ $\times$ _____ = 4



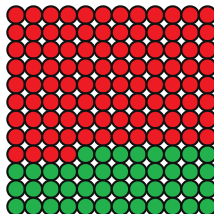
_____ $\times$ _____ = 16



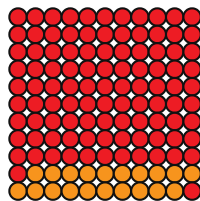
$4 \times 4 =$ _____



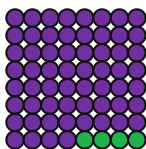
_____ $\times$ _____ = 25



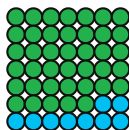
$12 \times 12 =$ _____



_____ $\times$ _____ = 121



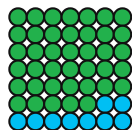
$8 \times 8 =$ _____



_____ $\times$ _____ = 49



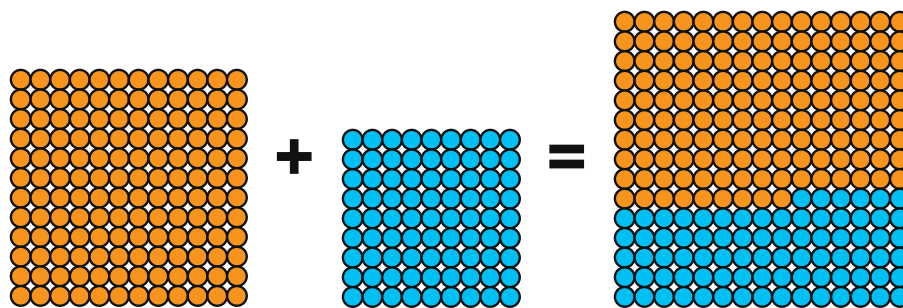
_____ $\times$ _____ = 9



$7 \times 7 =$ _____

Pythagoras

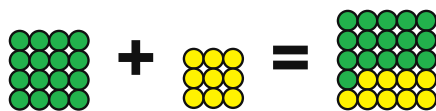
The squares on the two **short** sides pour into the square on the **long** side and fit exactly. Add them, or take one away.



long side 15: $15 \times 15 = \underline{225}$

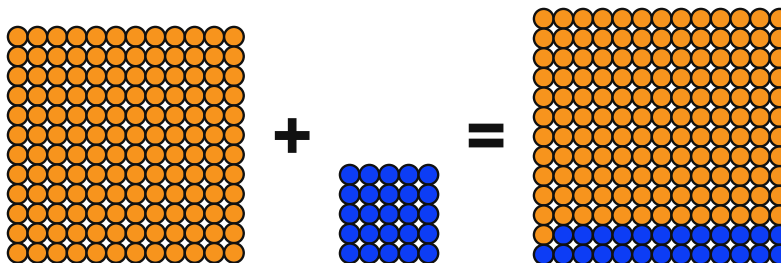
one short side 12: $12 \times 12 = \underline{144}$

$225 - 144 = \underline{81}$, so the other side is 9



$4 \times 4 = \underline{16}$ $3 \times 3 = \underline{9}$

together $\underline{25} = \underline{5} \times \underline{5}$: the long side is 5

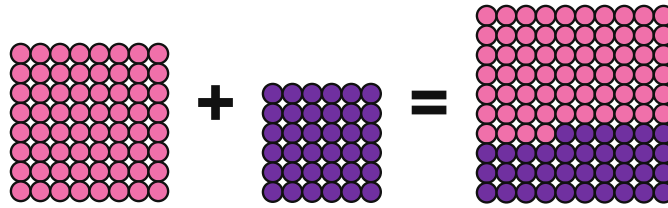


$12 \times 12 = \underline{144}$ $5 \times 5 = \underline{25}$

together $\underline{169} = \underline{13} \times \underline{13}$: the long side is 13

Pythagoras

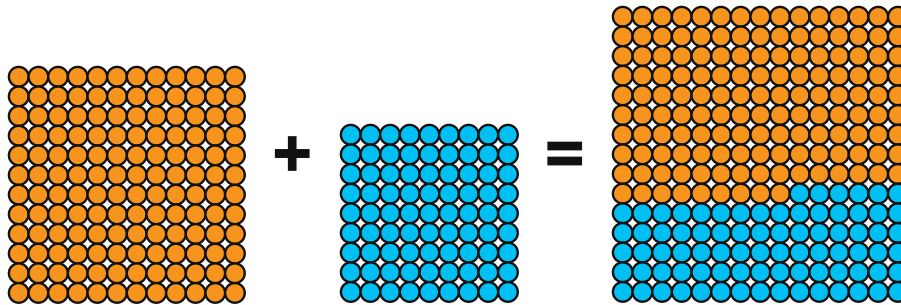
The squares on the two **short** sides pour into the square on the **long** side and fit exactly. Add them, or take one away.



$$\text{long side } 10: 10 \times 10 = \underline{100}$$

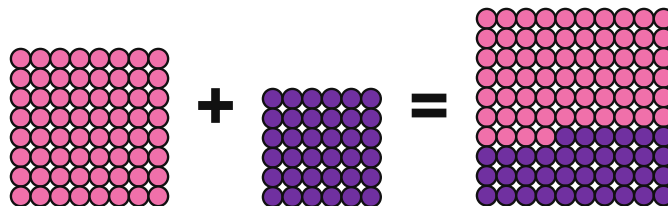
$$\text{one short side } 8: 8 \times 8 = \underline{64}$$

$$100 - 64 = \underline{36}, \text{ so the other side is } \underline{6}$$



$$12 \times 12 = \underline{144} \quad 9 \times 9 = \underline{81}$$

$$\text{together } \underline{225} = \underline{15} \times \underline{15} : \text{ the long side is } \underline{15}$$

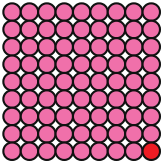


$$8 \times 8 = \underline{64} \quad 6 \times 6 = \underline{36}$$

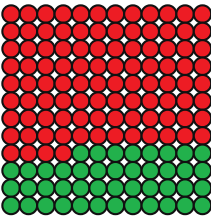
$$\text{together } \underline{100} = \underline{10} \times \underline{10} : \text{ the long side is } \underline{10}$$

Squares

Side given? Count all the dots. **All the dots given?** Count the side.



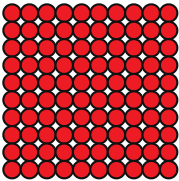
$9 \times 9 = \underline{81}$



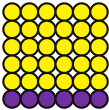
$\underline{12} \times \underline{12} = 144$



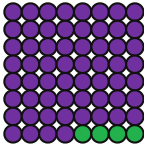
$5 \times 5 = \underline{25}$



$10 \times 10 = \underline{100}$



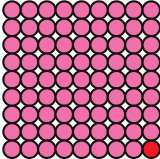
$6 \times 6 = \underline{36}$



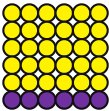
$\underline{8} \times \underline{8} = 64$



$3 \times 3 = \underline{9}$



$\underline{9} \times \underline{9} = 81$



$\underline{6} \times \underline{6} = 36$



$2 \times 2 = \underline{4}$



$\underline{2} \times \underline{2} = 4$



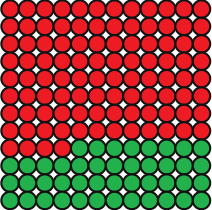
$\underline{4} \times \underline{4} = 16$



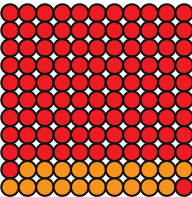
$4 \times 4 = \underline{16}$



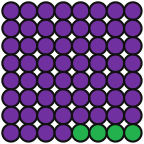
$\underline{5} \times \underline{5} = 25$



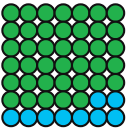
$12 \times 12 = \underline{144}$



$\underline{11} \times \underline{11} = 121$



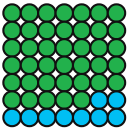
$8 \times 8 = \underline{64}$



$\underline{7} \times \underline{7} = 49$



$\underline{3} \times \underline{3} = 9$



$7 \times 7 = \underline{49}$