

Badger and Worms Problem

A badger went out one night. It was a terrible night, and he only caught 1 worm. The next night was a little better – he caught 2 worms.

Each night after that, he caught twice as many worms as the night before.

Can you work out how many worms he would be finding by the end of the week, (7 days)?

1. 1 worm
2. $1 \times 2 = 2$ worms
3. $2 \times 2 = ?$ worms
4. $? \times 2 =$ worms
5. Etc.



Snuffle Hole Problem

A member of the Badger Group was out on day, surveying for snuffle holes. (Snuffle holes are made when badgers dig into the ground looking for worms. You'll tell them apart from rabbit scrapes. Badger snuffles look as if someone had burrowed down with an ice cream cone!)

There were 18 snuffle holes in the 6 x 4 rectangular field. ▼

Can you arrange the 18 snuffle holes in the field so that when added vertically or horizontally, the number of holes is always even?

