

Chilli Challenges

Hot

On a blank hundred square, colour multiples of 8 red and multiples of 4 blue.

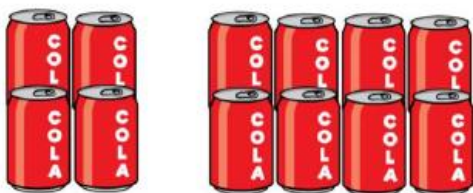
Always, Sometimes, Never

- Multiples of 4 are also multiples of 8
- Multiples of 8 are also multiples of 4

Spicy

Rosie has some packs of cola which are in a box.

Some packs have 4 cans in them, and some packs have 8 cans in them.



Rosie's box contains 64 cans of pop.

How many packs of 4 cans and how many packs of 8 cans could there be?

Find all the possibilities.

Answers

Hot

1) Sometimes, every other multiple of 4 is also a multiple of 8

The ones in between aren't because the jumps are smaller than 8

2) Always - 8 is a multiple of 4 therefore all multiples of 8 will be multiples of 4

Spicy

Possible answers:

- 2 packs of 4, 7 packs of 8
- 4 packs of 4, 6 packs of 8
- 6 packs of 4, 5 packs of 8
- 8 packs of 4, 4 packs of 8
- 10 packs of 4, 3 packs of 8
- 12 packs of 4, 2 packs of 8
- 14 packs of 4, 1 pack of 8