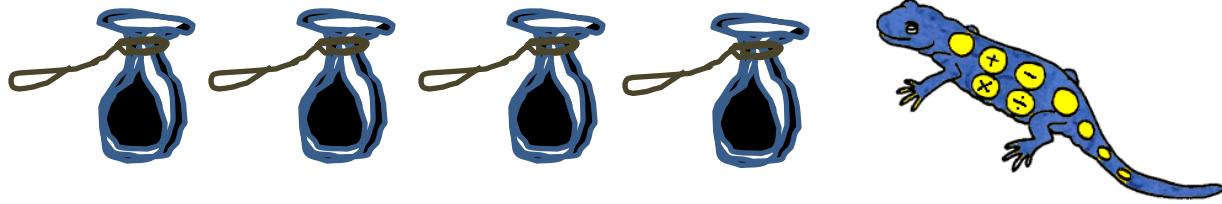




## QUADRA'S MAGIC BAG CHALLENGES



Quadra has 4 special black bags which he uses to show off his math skills.

### CHALLENGE 1 - THE CLOSED BAG CHALLENGE

Quadra has 15 special seeds in his black bags. The seeds are sensitive to light, so he cannot open the bags until the seeds are ready to be planted.

He has arranged the seeds in his 4 bags so that he can give any number of seeds from 1 seed to 15 seeds to his friends without opening any bag to move seeds about.

Each bag has a different number of seeds in it.

How many seeds does each of the 4 bags have?

### CHALLENGE 2 – THE 100 COIN CHALLENGE

Quadra has 100 gold coins to put into his 4 bags. He puts the coins in his bags so that each bag has two more coins than the one before.

How many coins are in each bag?





# QUADRA'S MAGIC BAG CHALLENGES ANSWERS

## CHALLENGE 1 - THE CLOSED BAG CHALLENGE

Quadra has 15 special seeds in his black bags. The seeds are sensitive to light, so he cannot open the bags until the seeds are ready to be planted.

He has arranged the seeds in his 4 bags so that he can give any number of seeds from 1 seed to 15 seeds to his friends without opening any bag to move seeds about.

Each bag has a different number of seeds in it.

How many seeds does each of the 4 bags have?

Bag 1 - 1 seed	Bag 2 - 2 seeds	Bag 3 - 4 seeds	Bag 4 - 8 seeds
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## CHALLENGE 2 - THE 100 COIN CHALLENGE

Quadra has 100 gold coins. He puts the coins in his bags so that each bag has two more coins than the one before.

How many coins are in each bag?

Bag 1 - 22 coins	Bag 2 - 24 coins	Bag 3 - 26 coins	Bag 4 - 28 coins
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