

29.04.24


Number Nest Weekly Challenge



Warm up

- What digits can a square end number end with?
- What is 1, 570,341 mm in km?
- $67,907 \div 100 =$
- Which three square numbers add together to make 142?
- Jacky has four coins. Three of the coins add up to 9p. Three of the coins add up to 12p. What coins does Jacky have?
- $3,054 \times 1000 =$
- What is 135 miles approximately equal to in km?

Activity

- Two princes, Prince Ali and Prince Charming, each have a very small army. The total number in the two armies is fifty soldiers. The number of cavalry soldiers in Prince Charming's army equals the number of ground troops in Prince Ali's army. Prince Ali has two fewer troops in total than Prince Charming and the number of cavalry soldiers in Prince Ali's army is four fewer than the number of cavalry soldiers in Prince Charming's army. How many cavalry soldiers and ground troops does each army have?
- Deep down in the sea there is a community of ocean-dwellers named the Bubblefolk comprised of seahorses, mermaids and octopuses. If we count the tentacles of an octopus as arms, the group had 50 arms, 40 eyes and 16 tails. How many of each are in the group?



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Puzzle

This magic square adds up to nothing. Put the numbers below into the square so that each row, column and diagonal adds up to zero.

Numbers

-4, -3, -2, -1, 0, 1, 2, 3, 4

