

## FRIDAY MATHS

### Dip and Pick card 16

We have included further steps this week to challenge and grow your brains. You can choose how far you take this challenge. Complete it in this order; **orange, blue, pink, red, yellow and finally purple**.

**CARD 16**

Billy stacks some empty cans on top of the wall. In total, there are 18 cans. He throws a ball and knocks down  $\frac{2}{3}$  of the cans.

How many cans does he knock down?

**Yellow Card:** Billy knocked down 6 cans which was  $\frac{1}{3}$  of the cans on the wall. How many cans did Billy start with?

**Purple Card:** What if...  
...you design the brick wall for the cans to stand on?  
If  $\frac{3}{8}$  of the wall is brown and the rest is orange, how many orange and brown bricks will you need?

**Pink Card:** Billy stacks an amount of cans that is a multiple of 5. If he knocks down  $\frac{3}{5}$ , how many cans could he have knocked down?

**Blue Card:** Billy stacks some empty cans on top of the wall. In total, there are 18 cans. He throws a ball and knocks down  $\frac{2}{3}$  of the cans. How many cans does he knock down? Billy then knocks down  $\frac{1}{3}$  of the cans that are left standing. How many cans does he knock down altogether?

**Red Card:** Billy stacks 20 cans on the wall. Billy knocks down  $\frac{1}{5}$  of the 20 cans. He says that only 15 cans are left standing. Is he correct? Explain how you know.

**Less straight forward**

**Finding all possibilities**

**Explain**

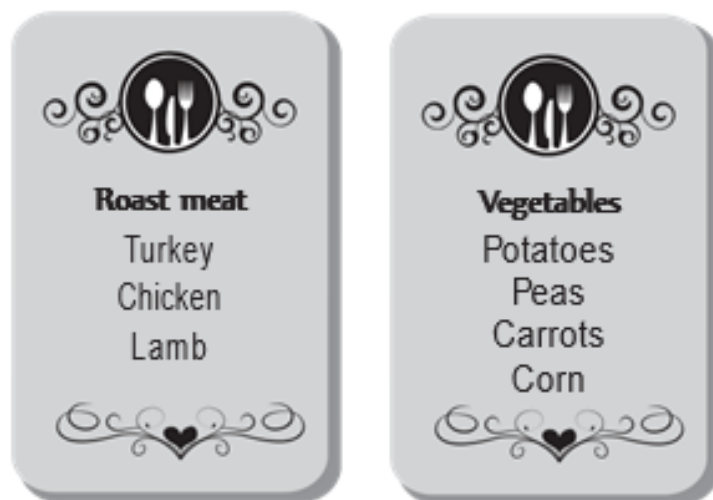
**Instructions left out**

**More steps**

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### Finding all possibilities

- 1 Meg uses the digit cards 7, 1, 9, 0 and 8 to make 3-digit whole numbers. She has so far made the numbers 790, 819 and 907.  
Alex says there are other possible numbers.  
Write all the other possible numbers that Meg can make.
- 2 Mr. Smith is at a restaurant for Sunday lunch. He can have one roast meat and two vegetables.  
List all the different meals he can choose from the menu.



- 3) Jo has packed his suitcase for his work trip to New York. He has packed:
- three pairs of trousers: blue, brown, black
  - four different-coloured shirts: white, blue, pink, cream.
- How many different outfits could Jo wear?  
Find all the possible outfit combinations.