

# Birthday Time

You need  a classmate

2 sets of digit cards (0-9)

## Activity

At her cake shop, Carla's mum has made birthday cakes for children aged 4, 5, 6, 7, and 8.

Carla wants to find a quick way to add up how many candles her mum needs in total for all the birthday cakes.

Carla knows that  $4 + 6 = 10$ .



I know that 4 and 6 is 10.

4 and 6 is 10.  
7 and 8 is 15.  
10 and 15 is 25.  
That just leaves the 5.  
So, if I add 5 to 25 ...  
That means I'll need  
30 candles.

1. What other numbers can you think of that add to 10?
2. Look for a quick way of working out how many candles Carla's mum would need to put on cakes for children with the ages shown below. With a classmate, discuss the way you worked out each problem.
  - a. 1, 3, and 7    b. 4, 5, and 6    c. 2, 3, 5, and 8    d. 2, 4, 4, and 7
3.
  - a. How many candles would Carla's mum need to put on cakes for children aged 1, 2, 3, 4, 5, 6, 7, and 8?
  - b. With a classmate, discuss the way you worked it out. Can you think of other ways to work out this problem?
4. Carla's mum used 20 candles on four birthday cakes. What ages might be on the cakes? Make up five different answers.