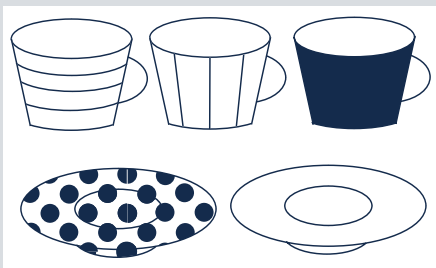


Approach: Independent*Level:* Year 4 and year 8*Focus:* Combinations and probability.*Resources:* None.*Questions/instructions*

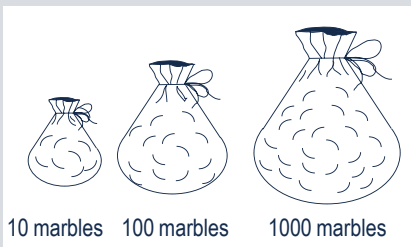
1. Each cup can be paired with each saucer. How many different pairings of a cup and saucer can be made?

% responses	
2001 ('97)	2001 ('97)
year 4	year 8

A 2**B** 3**C** 5**D** 6

D 15 (•) 56 (56)

2. There is only one red marble in each of the bags shown below. Without looking, you are to pick a marble out of one of the bags. Which bag would give you the greatest chance of picking the red marble?

**A** Bag with 10 marbles.

A 49 (•) 76 (74)

B Bag with 100 marbles.**C** Bag with 1000 marbles.**D** It makes no difference.*Commentary*

The results for year 8 students were almost identical in 1997 and 2001. These tasks were not administered to year 4 students in 1997.