

You will need

a set of ten cards numbered 0 to 9.

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|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|

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|---|---|---|---|---|
| 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|

6 Take ten cards

Take ten cards numbered 0 to 9.

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|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|

Pick 3 cards with a total of 12.

There are 10 different ways to do it.

How many of them can you find?

Now pick 4 cards with a total of 12.

How many different ways can you do it?

Write your answers and bring them to school.



Solution: Take ten cards

0, 3, 9; 0, 4, 8; 0, 5, 7; 1, 2, 9; 1, 3, 8;
1, 4, 7; 1, 5, 6; 2, 3, 7; 2, 4, 6; 3, 4, 5.

There are 9 different ways to choose 4 cards with a total of 12:

0, 1, 2, 9; 0, 1, 3, 8; 0, 1, 4, 7;
0, 1, 5, 6; 0, 2, 3, 7; 0, 2, 4, 6;
0, 3, 4, 5; 1, 2, 3, 6; 1, 2, 4, 5.