

Investigation

Percentage professionals

What to do:

- o Take an A4 piece of paper. Fold it in half, half again, half again and half again.
- o Open it. There should be 16 sections.
- o In the top 8 sections, write the following percentages:

1%	10%	20%	25%
50%	60%	75%	90%

- o In the other 8 sections, write a fraction equivalent to each of the percentages (you'll need $\frac{1}{100}$, $\frac{1}{10}$, $\frac{1}{5}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{5}$, $\frac{3}{4}$ and $\frac{9}{10}$).
- o Now cut up the sheet so you have 16 cards.

Try this...

- Without looking, remove one of the 16 cards.
- Spread out the remaining 15.
- How quickly can you figure out which one is missing?
- Repeat several times.
- Try removing 2 cards.

.. or play this game of *Percentage Pelmanism*

- Turn over all of the 16 cards and arrange in a 4 by 4 grid.
- Choose two cards to turn over.
- If they are a pair of equivalent fractions/percentages, keep them; if not, turn them over and choose two more.
- How many turns does it take to find all 8 pairs?

Challenge

Challenge an adult to play this game – take turns choosing two cards. The winner is the person who finds the most pairs!