Primary Puzzle Page - Measures

(All problems are taken from 'Graded Problem-Solving Cards' – Years 1-6 TTS)

Year 1:

I think of a number. I halve it. My answer is 7.

What is my number?

How could you prove it?

Year 2:

Would you rather have ½ of a bag with 6 sweets in it or ¼ of a bag with 8 sweets in it? Why?

Explain your thinking.

Year 3:

A tube of sweets has 5 orange, 7 red, 5 green, 4 yellow, 6 brown and 3 blue sweets.

What fraction of the sweets is blue?

How could you prove it?

Year 4:

Sarah's Gran gave her a large bar of chocolate. On Monday she ate 3/9 of the bar and on Tuesday she ate 4/9 of the bar.

Was it possible for her to eat 5/9 of the bar on Wednesday?

Explain your thinking.

Year 5:

In a pie eating competition, Luke eats 2 and ¾ of his pies while Matt eats 20/8 of his pies.

Who won the competition?

How could you prove it?

Year 6:

1/3 of the coins in my purse are 50 pences, 1/6 are 10 pences and I also have three 20 pences, two 5 pences and a £1 coin.

How many coins are in my purse?

How much money is in my purse?