Problem of the Week: Week 7 (Sum2) : Year 7: Number and place value

- Understand and use place value for decimals
- Round numbers and measures to an appropriate degree of accuracy (for example, to a number of decimal places or significant figures)
- Use approximation through rounding to estimate answers

Which answer?

What is the largest integer that, when rounded to the nearest **10**, is 400?

- a) 404
- b) 399
- c) 449
- d) 404.9

What is the smallest integer that, when rounded to the nearest **100**, is 3,000?

- a) 3001
- b) 2950
- c) 2500

Decimal number line

0.19 is half-way between the numbers in the two blue boxes.
What numbers could be in the blue boxes?
Answer this question in two ways.

| | 0.19 | |
| | 0.19 | |

Rounding Money

Rounded to the nearest £10, Alex has £250.
Rounded to the nearest £100, Jim has £400.
Alex and Jim have an exact amount in £ pounds.
What is the greatest possible difference between the amount of money that Alex and Jim have?

Tasks from 'I See Reasoning' and 'I See Problem-Solving' by Gareth Metcalfe