

Problem Solving Week 10

Foundation:

Mary rolls 3 fair 6 sided dice.

The sum of the first two dice is a factor of 6.

The product of the second two dice is a multiple of 4.

The range of the scores on the dice is 3.

Fill out the boxes below with the numbers Mary could have rolled on each dice.

<input type="text"/>	<input type="text"/>	<input type="text"/>
1st dice	2nd dice	3rd dice

Higher:

At *Animals R Us Vets* they have 3 different categories of animals on their register.

They have cats, dogs and 'other animals' on the register.

The ratio of cats to dogs on the register is 12:7

The ratio of dogs to 'other animals' on the register is 3:1

Work out what percentage of the register is made up of dogs.

Give your answer to 1 decimal place.