What is the largest possible five-digit number divisible by 12 that you can make from the digits
1, 3, 4, 5 and one more digit?

Can you order the digits 1, 2 and 3 to make a number which is divisible by 3?
And when the final digit is removed it becomes a two-digit number divisible by 2, then finally a one-digit number divisible by 1?
Is there more than one possible answer?
Now try with the digits 1, 2, 3 and 4 to make a number divisible by 4, remove the final digit to make a three digit number that is divisible by 3, then remove the next to make a two-digit number divisible by 2 and finally a one-digit number divisible by 1.
Now try the same with the digits 1, 2, 3, 4 and 5.

The difference between the greatest and the smallest answer in this group of calculations is 9.

35.2 ÷ ☐

42.4 ÷ ☐

71.2 ÷ ☐

Year 6
Division

Challenge linked to Home Learning
Butcher's Wood in Sussex has an area of 70290 metres squared. If there are this number of woodland creatures living there, how much space do they each have?
- ➢ 4 foxes
- ➢ 7 hedgehogs
- ➢ 6 squirrels
- ➢ 3 deers
- ➢ 2 badgers
- ➢ 5 rabbits
- ➢ 3 owls
- ➢ 1 bear
- ➢ 2 raccoons

Six whole pizzas weigh 8.16kg altogether.
Each whole pizza is sliced up into eight equal parts.
How much does one slice of pizza weigh?