

Fractions of Quantities

Problem Solving – try to do as many as you can in 20 minutes!

1. In an orchard $\frac{1}{5}$ of the trees need pruning. There are 45 trees, how many need pruning?
2. $\frac{1}{3}$ of people surveyed voted 'yes' in the referendum. If 42 people were surveyed how many voted yes?
3. I have eaten $\frac{1}{7}$ of the chocolates in the box, if there were 56 chocolates:
 - a) How many have I eaten?
 - b) How many are left?
4. $\frac{4}{5}$ of the tickets for a Lady Gaga concert have been sold. If there are 2000 tickets how many have been sold?
5. In a room $\frac{2}{3}$ of the people are male. If there are 60 people in the room how many:
 - a) men
 - b) women are there?
6. A shop sold $\frac{2}{3}$ of all their newspapers one morning. The rest they returned.
If they had 360 papers.
 - a) How many did they sell?
 - b) How many did they return?
7. In a car park $\frac{4}{7}$ of the cars are silver. There are 700 cars in the car park.
How many are NOT silver?
8. If $\frac{9}{10}$ of cats prefer Felix of the 500 surveyed how many do NOT prefer Felix?

Now for a really tricky one!

9. $\frac{1}{3}$ of the people in a room are under 20. If there are 15 under 20s how many over 20s are there?

10. $\frac{4}{5}$ of Dek computers are faulty. If the company has to repair 8000 one year how many did they sell?