

Fractions of Quantities

Problem Solving

I can calculate simple fractions of quantities and use this knowledge to solve problems.

1. In an orchard $\frac{1}{5}$ of the trees need pruning. There are 4500 trees, how many need pruning?

Answer:

2. $\frac{1}{3}$ of people surveyed voted 'yes' in the referendum.

If 7350 people were surveyed, how many voted yes?

3. A factory produces 6650 chocolates a day, but $\frac{1}{7}$ of the chocolates are faulty.

a) How many chocolates are faulty?

b) How many are okay to use?

4. $\frac{4}{5}$ of the tickets for an Ariana Grande concert have been sold.

If there are 9985 tickets, how many have been sold?

5. At a theatre show $\frac{2}{3}$ of the people in the audience are female. If there are 2250 people in the audience, how many are:

a) men?

b) women?

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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 1435 cars in the car park.

How many are NOT silver?

8. If $\frac{9}{10}$ of cats prefer Felix, of the 5000 surveyed, how many do NOT prefer Felix?

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 computers in the school are faulty.

If the school has to replace 400 computers, how many did they have altogether?