Finding fractions of a group of objects

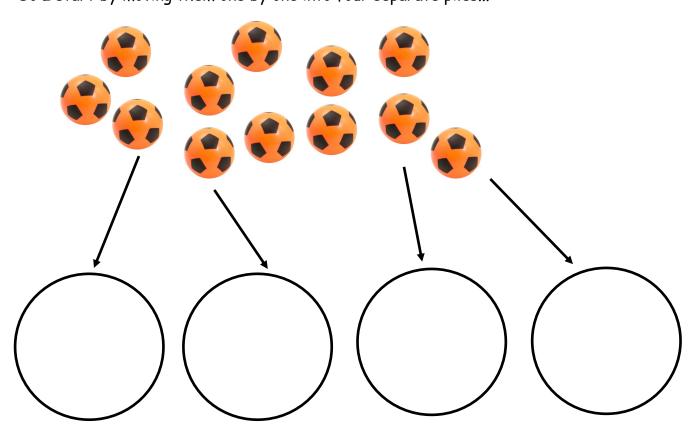
It's easiest to explain this by looking at an example question I think. So let's say I want to find $\frac{1}{4}$ of 12.

Here are my twelve objects:



Now to find $\frac{1}{4}$ of this group, I need to remember what the different parts of the fraction really mean.

The denominator in this case is four, which means I want to share out these objects into **four equal** groups. (we've had lots of practise doing this in division remember!) So I start by moving them one by one into four separate piles...



Until I've got none left and all my objects are in four equal groups:



So now my group of objects has been divided into quarters.

 $\frac{1}{4}$ just means one of those groups. So how many of the objects are in one of the groups?

Answer: There are three objects in each group.

So
$$\frac{1}{4}$$
 of 12 = 3.

Your turn now! I want you to go and grab a group of objects, it can be anything you want- toy cars, dolls, lego bricks, pasta shells... even sweets if mum and dad allow to keep you motivated! Just make sure you've got plenty. Then have a go at the questions below.

$$\frac{1}{3}$$
 of 15 = $\frac{1}{3}$ of 12 = $\frac{1}{5}$ of 20 = $\frac{1}{4}$ of 28 = $\frac{1}{6}$ of 18 = $\frac{1}{7}$ of 21 = $\frac{1}{8}$ of 24 = $\frac{1}{4}$ of 16 =

If you've got the hang of it already and spotted how to do this using the division facts that you know, have a go at these for a bit more of a challenge. Fill in the missing symbol $\langle \rangle$ or = . The first one has been done for you.

$$\frac{1}{4} \text{ of } 20 \qquad \frac{1}{3} \text{ of } 18 \qquad \frac{1}{2} \text{ of } 20 \qquad \frac{1}{3} \text{ of } 30$$

$$\frac{1}{8} \text{ of } 32 \qquad \frac{1}{7} \text{ of } 28 \qquad \frac{1}{4} \text{ of } 16 \qquad \frac{1}{3} \text{ of } 12$$

$$\frac{1}{5} \text{ of } 45 \qquad \frac{1}{3} \text{ of } 24 \qquad \frac{1}{5} \text{ of } 35 \qquad \frac{1}{5} \text{ of } 40$$

$$\frac{1}{3} \text{ of } 27 \qquad \frac{1}{6} \text{ of } 48 \qquad \frac{1}{8} \text{ of } 72 \qquad \frac{1}{2} \text{ of } 24$$

Then for you really really keen beans. Have a go at the problem below, look very carefully at the wording. Think about what you actually know is there and what you have to figure out.

