Willy Wonka's Factory Fraction Problems!

Help! The Wonka bar machine is broken. Wonka bars should be able to be divided in to tenths. Can you colour the correct Wonka bar?
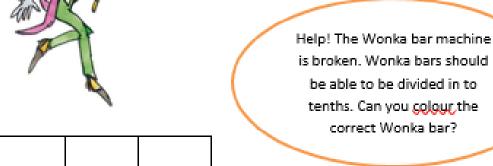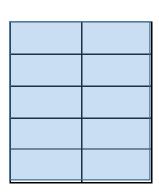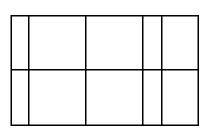
There are 30 Oompa-loompas on the second floor. We need $\frac{2}{6}$ of them in the chocolate room. How many Oompa-loompas should we send?

We need to find 2/6 of 30.

30 ÷ 6 = 5, so 1/6 of 30 is 5.

5 x 2 = 10. 2/6 of 30 is 10. We should send 10 Oompa-loompas

My little Augustus needs as much chocolate as possible. Should he eat 3 tenths or $\frac{23}{100}$? Why?

He should eat 3 tenths because that is the same as 30/100, which is more than 23/100.

Each Whipple-Scrumptious-Fudge-Mallow-Delight weighs 100g. Fudge is $\frac{4}{10}$ of the weight. How many grams of fudge are needed to make 5 bars?

4/10 of 100 = 40g

40g x 5 chocolate bars = 200g for 5 bars.

I am inventing a new chocolate bar. $\frac{2}{10}$ of the chocolate bar will be made from freshly squeezed snozberries. Elderberries will make up another 0.3 of the chocolate bar, and the rest will be chocolate. What fraction of the bar will be chocolate? How many different ways can you write you answer?

2/5 + 0.3 = 0.5 or 5/10, or ½ of the chocolate bar made of berries.
Half of the chocolate bar will be made of chocolate.
We could say e.g. half, 1/2, 0.5, 5/10, 50/100