

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. (Year 5)

1. Mrs Jones is baking cupcakes; she has a recipe that make 48 cupcakes. To make just 12 cupcakes, Mrs Jones that she needs to find a quarter of the original recipe. What are the new amounts that she needs?
- 480g plain flour
 - 4 eggs
 - 300g sugar
 - 20ml vanilla flavouring
 - 5ml red food colouring
 - 10g baking powder

What is she wanted to make 96 cupcakes? What would be the new measurements?

2. An electronics shop is having a sale where products have been reduced to give them a new price. What are their new prices?
- TV - £360 reduced by 10%
 - Apple iPad - £560 reduced by $\frac{1}{5}$
 - Xbox One - £250 reduced by 25%
 - PS4 - £350 reduced by 5%
 - Laptop £400 reduced by 15%
 - Digital camera - £90 reduced by $\frac{2}{10}$

If I bought an iPad and an Xbox in the sale, how much change would I have from £1000? Would I be able to afford anything else?

3. A family go on a picnic, at lunch time they unpack their food and share everything out equally between 5 of them. Work out how much food each person receives:
- 15 ham sandwiches
 - 10 cheese sandwiches
 - 5 tuna sandwiches
 - A bunch of grapes
 - A packet of 20 cocktail sausages
 - 7 and a half satsumas
 - 3 packets of crisps (vegetable, barbeque and cheese and onion)

4. Before I went on holiday, I went to the bank to change my money from pounds (£) into Euros (€). I was told that there was a 2% increase, if I was to exchange the following amounts of money from Pounds into Euros, how much would I receive back?
- £1 =
 - £2 =
 - £5 =
 - £10 =
 - £50 =
 - £100 =
 - £200 =

5. A theme park has discounted prices for different days and people. Use the information in the table to answer the questions:

<u>Day</u>	<u>Adult</u>	<u>Child</u>	<u>Elderly</u>	<u>Family</u>
<u>Mon-Fri</u>	£10	£5	£6	£25
<u>Sat-Sun</u>	£15	£7.50	£8	£35

- Buy tickets online to receive 10% off the price!
- A family want to visit on Saturday and book online, how much do they pay?
- 3 adults and a child visit on Friday and they do not book online but they have a 'children go 1/2 price' voucher, how much do they pay?
- 4 adults, 5 children and an elderly person visit on Sunday, how much do they pay?