a) Natalie makes potato cakes in a restaurant.

She mixes potato, cheese and onion so that
weight of potato $:$ weight of cheese $:$ weight of onion $=9: 2: 1$
Natalie needs to make 6000 g of potato cakes.
Cheese costs $£ 2.25$ for 175 g .
Work out the cost of the cheese needed to make 6000 g of potato cakes.

|  | $9+2+1=12$ |
| :---: | :---: |
| How much of each <br> ingredient will <br> Natalie use? | $9 \times 500 \mathrm{~g}=4500 \mathrm{~g}$ of potato <br> $2 \times 500 \mathrm{~g}=1000 \mathrm{~g}$ of cheese <br> $1 \times 500 \mathrm{~g}=500 \mathrm{~g}$ of onion |
| How many packs of <br> cheese will Natalie <br> buy? | Natalie will need 6 packs of cheese. |
| How much will the <br> cheese cost? | $6 \times £ 2.25=£ 13.50$ |

b) Natalie makes biscuits in a bakery.

She mixes butter, sugar and flour so that
weight of butter : weight of sugar : weight of flour $=5: 12: 15$
Natalie needs to make 4800 g of biscuits.
Sugar costs $£ 0.75$ for 500 g .
Work out the cost of the sugar needed to make 4800 g of biscuits.

|  | $5+12+15=32$ |
| :---: | :---: |
| How much of each <br> ingredient will <br> Natalie use? | $4800 \mathrm{~g} \div 32=150 \mathrm{~g}$ |
| $5 \times 150 \mathrm{~g}=750 \mathrm{~g}$ of butter <br> $12 \times 150 \mathrm{~g}=1800 \mathrm{~g}$ of sugar <br> $15 \times 150 \mathrm{~g}=2250 \mathrm{~g}$ of flour <br> sugar will Natalie <br> buy? | Natalie will need 4 packs of sugar. |
| How much will the <br> sugar cost? |  |

c) Natalie makes biscuits in a restaurant.

She mixes butter, sugar and flour so that
weight of butter : weight of sugar : weight of flour $=6: 7: 9$
Natalie needs to make 5500 g of biscuits.
Butter costs $£ 1.09$ for 450 g .
Work out the cost of the butter needed to make 5500 g of biscuits.

|  | $6+7+9=22$ |
| :---: | :---: |
| How much of each <br> ingredient will <br> Natalie use? | $5500 \mathrm{~g} \div 22=250 \mathrm{~g}$ |
| $6 \times 250 \mathrm{~g}=1500 \mathrm{~g}$ of butter <br> $7 \times 250 \mathrm{~g}=1750 \mathrm{~g}$ of sugar <br> $9 \times 250 \mathrm{~g}=2250 \mathrm{~g}$ of flour |  |
| How many packs of <br> butter will Natalie <br> buy? |  |
| How much will the <br> butter cost? |  |

