a) Natalie makes potato cakes in a restaurant. She mixes potato, cheese and onion so that		b) Natalie makes biscuits in a bakery. She mixes butter, sugar and flour so that		
weight of potato : weight of cheese : weight of onion = 9 : 2 : 1		weight of butter : weight of sugar : weight of flour = 5 : 12 : 15		
Natalie needs to make 6000g of potato cakes. Cheese costs £2.25 for 175g.		Natalie needs to make 4800g of biscuits. Sugar costs £0.75 for 500g.		
Work out the cost of the cheese needed to make 6000g of potato cakes.		Work out the cost of the sugar needed to make 4800g of biscuits.		
	9 + 2 + 1 = 12		5 + 12 + 15 = 32	
How much of each ingredient will Natalie use?	$6000g \div 12 = 500g$ $9 \times 500g = 4500g$ of potato $2 \times 500g = 1000g$ of cheese $1 \times 500g = 500g$ of onion	How much of each ingredient will Natalie use?	$4800g \div 32 = 150g$ $5 \times 150g = 750g$ of butter $12 \times 150g = 1800g$ of sugar $15 \times 150g = 2250g$ of flour	
How many packs of cheese will Natalie buy?	$1000g \div 175g = 5.714285$ Natalie will need 6 packs of cheese.	How many packs of sugar will Natalie buy?	$1800g \div 500g = 3.6$ Natalie will need 4 packs of sugar.	
How much will the cheese cost?	$6 \times \pounds 2.25 = \pounds 13.50$	How much will the sugar cost?		
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c) Natalie makes biscuits in a restaurant. She mixes butter, sugar and flour so that		d) Natalie makes concrete on a building site. She mixes cement, sand and aggregate so that
weight of butter : weight of sugar : weight of flour = 6 : 7 : 9		weight of cement : weight of sand : weight of aggregate = 2 : 3 : 6
Natalie needs to make 5500g of biscuits. Butter costs £1.09 for 450g.		Natalie needs to make 2750kg of concrete. Cement costs £6.60 for 30kg.
Work out the cost of the butter needed to make 5500g of biscuits.		Work out the cost of the cement needed to make 2750kg of concrete.
How much of each ingredient will Natalie use?	6 + 7 + 9 = 22 $5500g \div 22 = 250g$ $6 \times 250g = 1500g \text{ of butter}$ $7 \times 250g = 1750g \text{ of sugar}$ $9 \times 250g = 2250g \text{ of flour}$	
How many packs of butter will Natalie buy?		
How much will the butter cost?		

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