

I'm not robot!

Buying Batteries

FM2.8

STANDARD POWER £2.95 + VAT RRP £3.40	EXTRA POWER £2.49 + VAT RRP £4.35	RECHARGEABLE £4.69 + VAT RRP £11.99
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I'm Helen. I'm looking at battery prices on a website.

[1] Work out the cost of each pack of batteries after 20% VAT is added on to the price. This is how much Helen would pay for the batteries if she bought them from the website.

- [2] RRP stands for 'Recommended Retail Price'. This is the price you could expect to pay if you bought the batteries in a shop. The RRP already includes VAT.
- How much would Helen **save** on each pack if she bought it from the website compared to the RRP?
 - Use this formula to calculate the **percentage discount** for each type of battery.

$$\text{Percentage discount} = \left(\frac{\text{Amount saved in pounds}}{\text{RRP}} \right) \times 100$$

- [3] The **EXTRA POWER** batteries last 30% longer than the **STANDARD POWER** batteries.
- Do the **EXTRA POWER** batteries **cost** 30% more than the **STANDARD POWER** batteries? Show how you decide.

Standard batteries last about 15 hours in my radio.

- How long could she expect the **EXTRA POWER** batteries to last?

- [4] Helen is thinking about buying a **battery charger** and **twenty** rechargeable batteries.
- Calculate the cost of a battery charger when 20% VAT is added on.
 - How many **packs** of rechargeable batteries will she need?
 - The website also charges **£1.99 postage** (including VAT) on every order. How much would Helen be charged if she ordered the battery charger and the rechargeable batteries.

- [5]
 - How many packs of **standard** batteries could she buy using your answer to [4] (c)?
 - How many times would she need to recharge the rechargeable batteries before she started to save money?

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N2/L2.8 N1/L2.465 You will need a calculator.

Estimation

Round the numbers to work out an estimate.
You may use a calculator for the Answer column if you wish.
One has been done for you.

	Rounded (nearest 10 or 100)	Estimate	Answer
628 + 178	600 + 200	800	$\begin{array}{r} 628 \\ + 178 \\ \hline 806 \end{array}$
503 - 288			
98 x 9			
44 + 11			
£25.99 + £39			

A travelling salesman makes journeys of 76 miles, 251 miles, 106 miles and 215 miles.
What is the estimated total distance he travels?
What is the actual total distance he travels?



A nurse earns £18.65 per hour and works 32 hours per week.
Estimate how much she earns in a week?
How much does she actually earn?



Created by Wendy Robinson

www.mathsforu.com

Charity Cupcakes

FM2.3



I am making 120 cupcakes to sell for charity.



CUPCAKES - ingredients for 30 cupcakes

- 200g butter
- 4 eggs
- 100g sugar
- 300g icing sugar
- 200g flour

- [1] (a) Work out how much of each ingredient she will need.
 (b) How much will the ingredients and bun cases cost **altogether** ?



How many packs of each ingredient will she have to buy ?


- [2] (a) How many **grams** of flour and sugar will she have left over ?
 (b) How many spare eggs will she have ?

- [3] Millie's oven has **three** shelves. She can fit one tray of cupcakes onto each shelf.



One tray

- (a) What is the **largest number** of cupcakes she can bake at the same time ?
 (b) It takes about **20 minutes** to bake one batch of cupcakes. How long will it take to bake all **120 cupcakes** ? Explain your answer.

- [4]  (a) If she sells all the cupcakes for **40p** each how much money will she take ?
 (b) How much **profit** will she make ?

- [5] Millie decides she wants to make **more profit**. What is the **lowest price** she can sell the cupcakes at to make **at least £50 profit** ?

- [6] She decides to sell the cupcakes for **50p** each but only sold **ninety** of them before she lowered the price. How much profit did she make ?



I put the price down to 30p and sold the rest.

You will need a calculator.

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NVL2.3 & 5 MSS11.2 & 6

Functional Skills English 2.6

Answer the questions on the text.

1. The ingredients for the cupcakes are listed in the table below. How much of each ingredient will Millie need to make 120 cupcakes?

Ingredient	Amount for 30 cupcakes
Flour	200g
Butter	200g
Eggs	4
Sugar	100g
Icing sugar	300g

2. How much will the ingredients and bun cases cost altogether?

3. How many packs of each ingredient will she have to buy?

4. How much profit will she make if she sells all the cupcakes for 40p each?

Functional Skills English 2.6

Answer the questions on the text.

1. How many shelves does Millie's oven have? How many trays of cupcakes can she fit on each shelf?

2. How long will it take to bake all 120 cupcakes?


3. How much profit will she make if she sells all the cupcakes for 50p each but only sold ninety of them before she lowered the price to 30p?

+ - MATH SKILLS REVIEW × ÷


NAME _____ DATE _____

DIRECTIONS: MARK THE CORRECT ANSWER.

1

	What is the time?	7:35
		11:40
		11:35

2

	What is the highest price?	\$5.00
		\$6.00
		\$4.00

3

	What is the lowest price?	\$5.00
		\$6.00
		\$4.00

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