



**Starter:**

1. Find 32% of £43
2. How many months are in 3 ½ years?
3. Find the total amount paid if you pay £56 per month for 4 years?
4. What is £54 as a percentage of £210?

**Top Tips!**

- Make sure your method is clear and you explain your calculations
- To find 23% of £120 using a calculator, type 0.23 x 120
- Remember that money, when written in pounds, must be to 2 decimal places (£15.60 not £15.6)

**Skills:**

1. Rhys is buying a car. The car costs £12000. He has to pay a 12% deposit and then £290 per month for 4 years.
  - (a) How much does he pay in total for the car?
  - (b) Calculate how much extra he has paid as a percentage of the value of the car

**Examination Question:**

**2013 January Link Applications U2Higher Q7**

Sammy-Jo is thinking of setting up a business to sell hand-knitted scarves. In order to set up her business, she needs to arrange a loan of £2000. She is offered two different options for a loan.

<b>Loan company</b>	<b>Repayment terms for a £2000 loan</b>
Driftwood loans	£68 a month for 3 years
Grain Bank	First payment is 10% of the loan and then 15 monthly payments of £146

To compare these two different loans, Sammy-Jo decides to calculate how much extra she would have to pay back as a percentage of the original £2000 loan offered by each company.

- Calculate these percentages so that Sammy-Jo can make this comparison
- Explain why this is not the only comparison Sammy-Jo should consider when deciding which loan to accept.[6+2]

**Assessment for Learning**

**Video / QR code**

**Starter:**

- Find 32% of £43  
**£13.76**
- How many months are in 3 ½ years?  
**42 months**
- Find the total amount paid if you pay £56 per month for 4 years?  
**£2688**
- What is £54 as a percentage of £210?  
**25.7%**

**Top Tips!**

- Make sure your method is clear and you explain your calculations
- To find 23% of £120 using a calculator, type  $0.23 \times 120$
- Remember that money, when written in pounds, must be to 2 decimal places (£15.60 not £15.6)

**Skills:**

- Rhys is buying a car. The car costs £12000. He has to pay a 12% deposit and then £290 per month for 4 years.
  - How much does he pay in total for the car?
  - Calculate how much extra he has paid as a percentage of the value of the car

**(a) £15360**  
**(b) 28%**

**Examination Question:****2013 January Link Applications U2Higher Q7****Driftwood:**

$$\text{Loan repayment total} = £68 \times 36 = £2448$$

$$\text{Cost of loan} = £2448 - £2000 = £448$$

$$\% \text{ of original loan} = (448/2000) \times 100 = 22.4\%$$

**Grain Bank:**

$$\text{Loan repayment total} = (0.10 \times 2000) + £146 \times 15 = £2390$$

$$\text{Cost of loan} = £2390 - £2000 = £390$$

$$\% \text{ of original loan} = (390/2000) \times 100 = 19.5\%$$

Other considerations : time to repay loan, can she afford the monthly payments with Grain Bank?

**Assessment for Learning****Video / QR code**