



3. When Louise had her first car, 50 litres of petrol cost £40. When she filled up the other day, she noticed that 40 litres of petrol cost £50.
By approximately what percentage has the cost of petrol increased over this time?
- A 50% B 56% C 67% D 75% E 80%

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3. **B** When 50 litres of petrol cost £40, 1 litre cost $\frac{£40}{50}$ which is 80 pence. More recently, 1 litre cost $\frac{£50}{40} = 125$ pence. The percentage increase is then $\frac{\text{actual increase}}{\text{original price}} \times 100$ which is $\frac{45}{80} \times 100 = \frac{450}{8} = 56.25$. So the approximate increase is 56%.