# Functional Skills Maths | Lesson Starter Quiz for Engineering Learners

1. Rashid is working as a car mechanic. He has the following jobs:
   - Change Oil – ¾ hour
   - Service – 1 hour 40 minutes
   - Change Coolant – 30 minutes

   How long will it take him to do these jobs?

2. Shirley is adding windscreen wash to her car. She has a 750ml bottle of concentrated wash.

   It needs to be mixed in the ratio 1 : 3 windscreen wash to water.

   How many litres of mixed wash will she have in total?

3. Emma needs to buy new summer tyres. She sees an offer:

   - **Summer Tyres**
   - £76.99 each
   - Buy four and the fitting is free

   How much would it cost to replace all four tyres?

4. Nelly needs to run cable completely around a rectangular room that measures 5.26m x 3.76m.

   How much cable will she need?

5. Using the following graph, how much would it cost to a ratchet drill, a file set, one set of tin snips and three hacksaws?

![Cost of Tools Graph](image)

6. Jamie has recorded the time it has taken them to deburr 5 copper pipes in minutes:
   - Pipe 1 – 25
   - Pipe 2 – 17
   - Pipe 3 – 13
   - Pipe 4 – 21
   - Pipe 5 – 19

   What is the mean time they took?

7. You need to deliver copper pipes to a customer.

   You know how much each pipe weighs and how much weight your van will hold?

   How would you work out how many pipes you could take in a journey?

8. Your college is buying drill gauges. A single gauge costs £2.75 plus VAT.

   VAT is 20%

   How much would it cost to buy 5 drill gauges?

9. Use a reverse calculation to check your answer to question 6.

Total Marks: ________ / 9