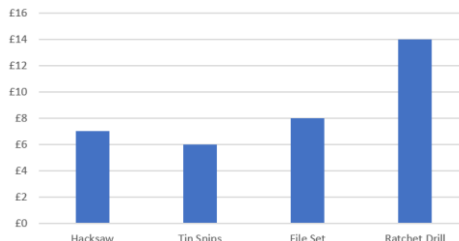


Functional Skills Maths | Lesson Starter Quiz for Engineering Learners

1. Rashid is working as a car mechanic. He has the following jobs. • Change Oil – $\frac{3}{4}$ hour • Service – 1 hour 40 minutes • Change Coolant – 30 minutes How long will it take him to do these jobs? (1)	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? (1)	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? (1)										
4. Nelly needs to run cable completely around a rectangular room that measures 5.26m x 3.76m. How much cable will she need? (1)	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 <table><thead><tr><th>Tool</th><th>Cost (£)</th></tr></thead><tbody><tr><td>Hacksaw</td><td>7</td></tr><tr><td>Tin Snips</td><td>6</td></tr><tr><td>File Set</td><td>8</td></tr><tr><td>Ratchet Drill</td><td>14</td></tr></tbody></table> (1)	Tool	Cost (£)	Hacksaw	7	Tin Snips	6	File Set	8	Ratchet Drill	14	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? (1)
Tool	Cost (£)											
Hacksaw	7											
Tin Snips	6											
File Set	8											
Ratchet Drill	14											
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? (1)	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? (1)	9. Use a reverse calculation to check your answer to question 6. (1)										

Total Marks: _____ / 9