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?

(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?

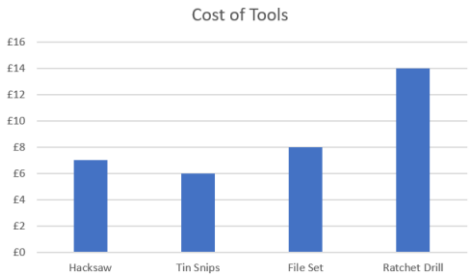
(1)

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?



(1)

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)

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