

Other compound measures

Starter

1. **(Review of last lesson)** Julie jogs 1.5 km in 10 minutes to Ananya's house as they are going for a run together. She has to wait 5 minutes for Ananya to get ready. They run at 15 km/h for 5 km in the same direction as Julie was walking. Finally, they turn around and return to Ananya's house in 25 minutes.
- Draw a distance-time graph for Julie's journey.
 - How far does Julie travel?

Notes

The methods used with distance, speed and time can be applied to other compound measures.

E.g. 1 Marcus can type 115 words in 5 minutes.

- Calculate his typing rate in words per minute.
- Marcus needs to type up his English essay of 800 words. How long would it take him if his typing rate remains constant? Give your answer in minutes and seconds, to the nearest second.

Working: (a) Words per minute = $\frac{115}{5} = 23$ words per minute.

E.g. 2 Sarah wants to buy compost for her allotment. Compost4U sell compost at £26.10 for a 3 kg bag and CompostRUS sell 5 kg bags for £44. By calculating the price per kg, decide which is the best buy and by how much

Video: [Compound measures](#)

[Solutions to Starter and E.g.s](#)

Exercise

p128 Ex 18.5 Qu 1-10