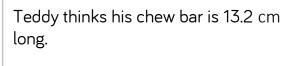


Metric Measures

Reasoning and Problem Solving



Do you agree? Explain why.

O 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Ron's dog is about $\frac{1}{4}$ of the height of the door.

Ron is three times the height of his dog. Estimate the height of Ron and his dog.



Teddy is wrong because he has not lined up the end of his chew bar with zero. It is actually 8.8 cm long.

Door = 2 m (200 cm) Dog = 50 cm Ron = 150 cm Here is a train timetable showing the times of trains travelling from Halifax to Leeds.

Halifax	Leeds
07:33	08:09
07:49	08:37
07:52	08:51

The first train from Halifax, which will now arrive in Leeds at 08:54.

An announcement states all trains will arrive $\frac{3}{4}$ of an hour late.

Which train will arrive in Leeds closest to 09:07?



Convert Metric Measures

Reasoning and Problem Solving

Mo thinks that 12,000 g is greater than 20 kg because 12,000 > 20	12,000 g = 12 kg, which is less than 20 kg.	A shop sells one-litre bottles of water for 99p each.	£11.88 to buy 12 one-litre bottles.
Explain why Mo is wrong.		300 ml bottles of water are on offer at 8 bottles for £2 Whitney wants to buy 12 litres of water.	12 litres = 40 bottles of size 300 ml. 40 ÷ 8 = 5 so
Put these capacities in order, starting with the smallest.	0.035 litres 330 ml 0.4 litres	Find the cheapest way she can do this.	this will cost $5 \times 2 = \pounds 10$ Whitney should
3 litres 3,500 ml	450 ml 3 litres 3,500 ml		buy 40 bottles of 300 ml.
0.4 litres 0.035 litres			
450 ml 330 ml			