

## COMPOUND MEASURES

Name:

Assessment Criteria: Understand and use measures of speed (and other compound measures such as density or pressure) to solve problems

1. Joe cycles at an average speed of 20 km/h

a) How far does he cycle in 15 minutes?

\_\_\_\_\_ km

b) How long does it take him to cycle 95 km? Give your answer in hours and minutes.

\_\_\_\_\_ hours and \_\_\_\_\_ minutes

2. Tracey travels the 35 kilometres from Norwich to Great Yarmouth. For the first 5 kilometres she travels at 20 km/h. The remainder of the journey is travelled at 60 km/h. What is her average speed for the whole journey?

\_\_\_\_\_ km/h

3. A chocolate brownie is in the shape of a cuboid and has dimensions 73 mm by 65 mm by 18 mm. It has a mass of 128 grams. What is the density of the chocolate brownie?

\_\_\_\_\_ g/cm<sup>3</sup>

Overall, I think my success level is:

Low High  
○ ○ ○ ○

Q	COMPOUND MEASURES	☺	☹
	I know the relationship between speed, distance and time		
	I can solve problems involving speed, distance and time		
	I can solve problems involving average speed		
	I know the relationship between density, mass and volume		
	I can solve problems involving density, mass and volume		
	I can recognise other compound measures (such as pressure and population density)		
	<i>I can solve increasingly demanding problems and evaluate solutions</i>		
I need to practise ...			