

## PROPORTIONAL REASONING

Name:

Assessment Criteria: Use proportional reasoning to solve a problem, choosing the correct numbers to take as 100%, or as a whole

1. The '30% Sale' is now on!

a) How much will a £60 MP3 player cost in the sale?

£ \_\_\_\_\_

b) On the final weekend of the sale the prices are cut by a further 20%. The manager of the shop advertises a '50% off' sale. Is she correct? Explain your answer.

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2. Matt wants to reduce an amount by 17%. He says:

*'A quick way to do this is to multiply the amount by 0.17'*

Do you agree with Matt? Explain your answer.

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3. 'Granny Margaret's Jam Cake' uses a basic mixture of flour, butter and sugar in the ratio 5:2:3. How much sugar and butter is needed to mix with 125g of flour?

Sugar: \_\_\_\_\_g

Butter: \_\_\_\_\_g

4. A sunflower grows from 80 cm to 1 m during a week. Calculate the percentage increase in the height of the sun flower.

\_\_\_\_\_ %

Overall, I think my success level is:

Low                  High

Q	PROPORTIONAL REASONING	😊	☹
	I can increase an amount using percentages		
	I can solve a proportional reasoning problem involving percentages		
	I can solve a proportional reasoning problem involving ratio		
	I can calculate a percentage increase		
	<i>I can solve problems and carry through substantial tasks by breaking them into smaller, more manageable tasks, using a range of efficient techniques, methods and resources, including ICT; give solutions to an appropriate degree of accuracy</i>		

I need to practise ...