RIGWUR



Homework 3

Gold Level

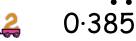


Outcome 1

Changing recurring decimals to fractions

Express the following recurring decimals as fractions...

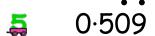
	•
1	0.54







0.729





0.37

Outcome 2

Percentage increase/decrease over time

Calculate the following after appreciation/depreciation...





18% increase p.a. Amount = £9000 Amount after 2 years?



4% increase p.a.
Population = 50 000
Population after 4 years?



5% decrease p.a.

Cost = £800

Cost after 10 years?

Value after 3 years?

6% increase p.a.

Value = £680



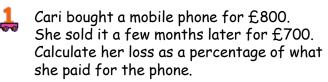


30% decrease per hour Temperature = 19°C Temperature after 4 hours?



41% decrease p.a. Value = £15 000 Value after 2 years?

Outcome 3 - Expressing one value as a % of the other





2

Robert is growing a sunflower.

One week its height increased from 80 centimetres to 88 centimetres.

Calculate the percentage increase in the sunflower's height.





During a sale the price of a roll of wallpaper is reduced from £5.60 to £4.20. Calculate the percentage reduction in the price of the roll of wallpaper.





A market trader bought ten "hi-vis" jackets for £150. He sells them for £18 each. Express his profit as a percentage of what he paid for the jackets.

