

Resource 1.0 Classifying Scenarios

(1) A local pizza restaurant charges a fixed amount for a basic cheese and tomato pizza plus extra for each additional topping.



Jackie orders a pizza with 3 additional toppings and it costs her £6.05.

Stephen orders a pizza with 5 additional toppings and it costs him £6.75.

How much would a pizza with 6 additional toppings cost? Show your working.

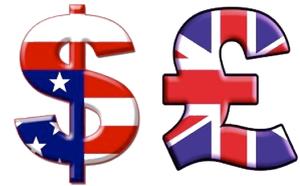
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(2) The conversion rate between US dollars and pounds is:

$$\text{\$}8 = \text{\pounds}5$$



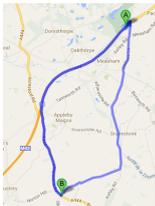
Tony wants to buy \$100. How much will it cost him in pounds? Show your working.

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(3) Lauren is planning a visit to the cinema.



She can either drive on the main road (at a speed of 60 mph) or take the country lane route (at a speed of 30 mph). The distance to the cinema is the same for both routes.

If she goes via country lanes it takes her 25 minutes to get to the cinema. How long would the journey take if she drove on the main road?

Show your working.

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(4) Amy is making fruit smoothie for a party. She uses 2 cartons of orange juice for every 3 cartons of strawberry juice to make the smoothie.

She has 7 full cartons and a half carton of strawberry juice already.

How many cartons of orange juice does she need to buy? Show your working.



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Resource 1.1 Classifying Scenarios (cont.)

(5) For each of the scenarios described in Q1 to Q4 decide which statements are true (tick all that apply).

Q1 Scenario 'Number of toppings' & 'Cost of pizza'	If you double the number of toppings, the cost of the pizza also doubles	The ratio of the number of toppings to the cost of pizza is always the same

Explain your answer:

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Q2 Scenario 'US dollars' & 'Pounds'	If you double the number of US dollars, the number of pounds also doubles	The ratio of US dollars to pounds is always the same

Explain your answer:

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Q3 Scenario 'Speed' & 'Time taken'	If you double the speed, the time taken also doubles	The ratio of speed to time taken is always the same

Explain your answer:

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Q4 Scenario 'Orange juice' & 'Strawberry juice'	If you double the amount of orange juice, the amount of strawberry juice also doubles	The ratio of orange juice to strawberry juice is always the same

Explain your answer:

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