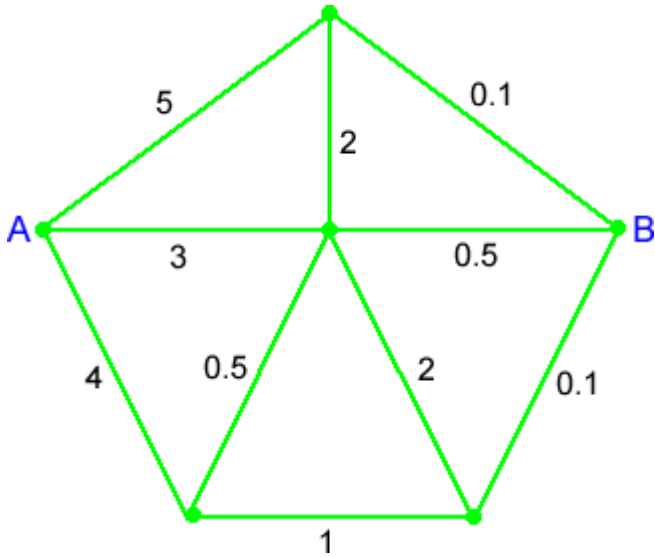


Route Product

Age 7 to 11

There are lots of different routes from A to B in this diagram:



The idea is to work out the product of the numbers on these different routes from A to B . Let's say that in a route you are not allowed to visit a point more than once.

For example, we could have 3×0.5 but we couldn't have $3 \times 2 \times 5 \times 4 \times 1 \times 0.1$ because that route passes through A twice.

Which route or routes give the largest product?

Which route or routes give the smallest product?

Do you have any quick ways of working out the products each time?

[This problem is adapted from a SMILE Centre card.]



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