

How much did it cost to transport coal?

Many Mansfield businesses wanted to buy coal from the Pinxton coal mines to burn in their factory boilers to make steam, which then worked machinery that made such things as thread and fabrics.

A. If 1 factory owner wanted 96 tonnes of coal:

1. How many wagons of coal would be needed if each wagon carried 3 tonnes?

2. How many journeys would have to be made to deliver the coal if 3 wagons were pulled by 2 horses each time?

B. How much would 96 tonnes of coal cost the factory owner if 1 tonne costs 40 pence?

C. Apart from paying for the coal, a fee, known as a toll, also had to be paid to use the railway. If 1 penny had to be paid for every kilometre that the wagons travelled, how much toll money would have to be paid to deliver the 96 tonnes (the line is 13 kilometres long)?

D. If the factory owner had to pay the toll as well as the cost of the coal, how much would he have to pay, in total for his coal?