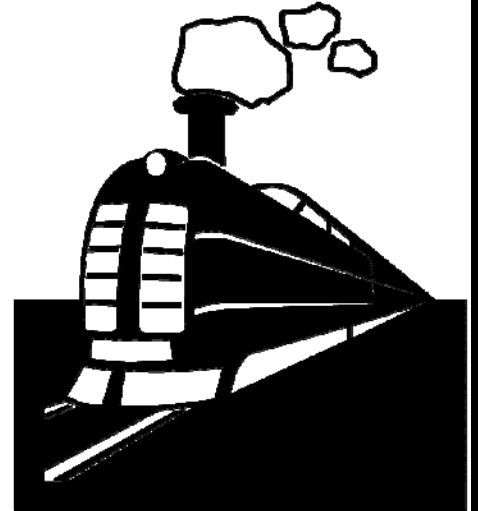# Percentage Based Word Problems Lesson

A train was travelling from New York to Norfolk. The trip was a total distance of 370 miles. The train made stops in Philadelphia, Washington D.C., and stopped at Norfolk. 25% of the distance was from New York to Philadelphia. 35% of the distance was from Philadelphia to Washington D.C. The remaining distance was from Washington D.C. to Norfolk. How many miles did the train travel to move from Washington D.C. to Norfolk?

Explanation:

At first this problem looks very difficult, but if you think through it it's not that bad.

100% of the trip distance is 370 miles over 3 train stops.

The train made 3 stops:

1) NY – Phila (25%) 2) Phila – D.C. (35%) 3) D.C. to Norfolk (x%) therefore:

100% = 25% + 35% + x

100% = 60% + x

x = 40%

We just need to find what 40% of the total trip distance (370 miles) is.

370 x 0.4 (40%) = 148 miles