

Kilograms and Kilometres

Ryan is trying to work out a route for his journey. He estimates the different lengths of various routes on a map.

Lengths of Routes	
2.62 km	0.95 km
$1\frac{1}{5}$ km	2,150 m
3,450 m	6.11 km
0.45 km	1,980 m
$2\frac{3}{4}$ km	$\frac{1}{2}$ km



Using at least 6 different routes above, explore which combinations he could choose that would add up to less than 10 km in total.

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Various answers, for example: $0.95 \text{ km} + 1\frac{1}{5} \text{ km} + 2,150 \text{ m} + 3,450 \text{ m} + 0.45 \text{ km} + \frac{1}{2} \text{ km} = 8,700 \text{ m}$ or 8.7 km or $8\frac{7}{10} \text{ km}$.