

# What Do Hitchhikers Do When School Lets Out?

This puzzle illustrates two practical uses of ratio and proportion: (1) figuring the size of a reduced or enlarged photograph; and (2) figuring distance on a map.

Use the information given on any line of the two charts to figure out the missing dimension, which is indicated by a box containing a letter. Find your answer at the bottom of the page and print the letter above it. Keep working and you will discover the answer to the title question.

ORIGINAL PHOTO	NEW PHOTO	MAP SCALE	TRIP TO BE TAKEN
7 × 12 cm	14 × <input type="text" value="A"/> cm	1 cm = 50 km	7 cm = <input type="text" value="N"/> km
8 × 10 cm	<input type="text" value="R"/> × 15 cm	2 cm = 25 km	<input type="text" value="A"/> cm = 75 cm
21 × 30 cm	7 × <input type="text" value="B"/> cm	3 in. = 4 mi	10 in = <input type="text" value="K"/> mi
3½ × 5 cm	<input type="text" value="O"/> × 10 cm	3½ in. = 5 mi	<input type="text" value="H"/> in = 16 mi
8 × 10 in.	11 × <input type="text" value="E"/> in.	½ cm = 100 km	4 cm = <input type="text" value="T"/> km
10 × 16 in.	<input type="text" value="I"/> × 4 in.	4 in. = 75 mi	<input type="text" value="T"/> in = 350 mi
7 × 10 in.	5 × <input type="text" value="A"/> in.	1½ in. = 10 mi	4½ in = <input type="text" value="C"/> mi
11 × 20 in.	<input type="text" value="E"/> × 8 in.	2½ in. = 150 mi	<input type="text" value="V"/> in = 100
6 × 9½ in.	4 × <input type="text" value="U"/> in.	1 in. = 3 mi	½ in. = <input type="text" value="M"/> mi
4 × 7 in.	<input type="text" value="A"/> × 8¼ in.	1 in. = 500 mi	<input type="text" value="T"/> in = 800 mi

800	24	13⅓	13¾	4⅕	1⅓	11⅕	6⅓	1½	10	4⅕	12	1⅓	7⅓	30	6	18⅔	2½	7	350
-----	----	-----	-----	----	----	-----	----	----	----	----	----	----	----	----	---	-----	----	---	-----