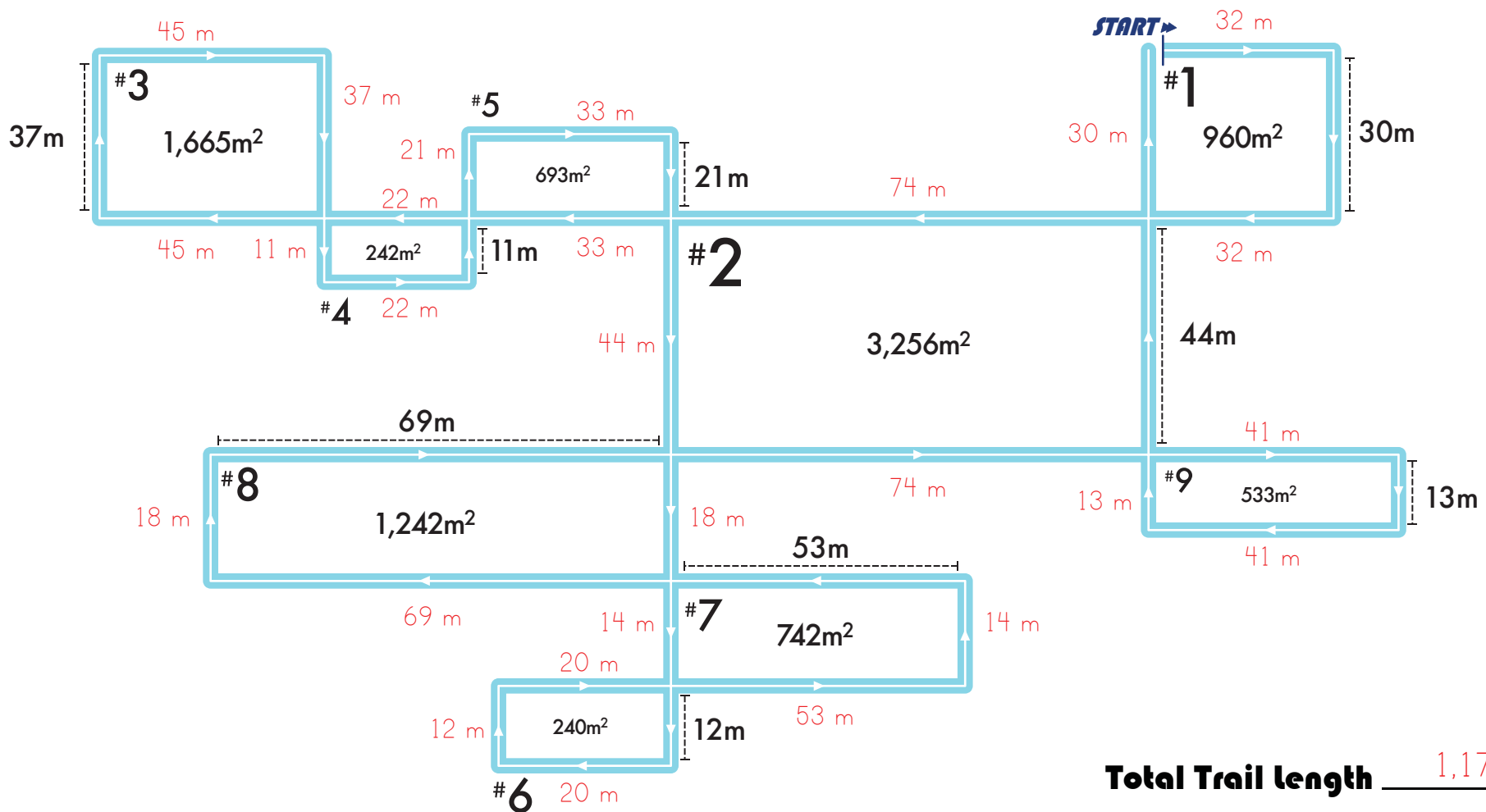


ski trail tracker #1

Find the total length of the cross-country ski trail below by finding the length of the individual segments. In each rectangular loop, the area and one side length are given. Use division to find the length of each unmarked segment (**rectangle area = length x width**, so **length = area ÷ width** or **width = area ÷ length**). After you've solved for each segment length, add them together and write the total in the bottom right corner. Remember, m = meters and m² = square meters. Use page 2 for help organizing and showing your work.



Ski Trail Tracker

show your work

Use this page to organize your work and find the lengths of the missing segments on page 1. Refer to page 1 for the corresponding rectangle number and solve for the missing length or width using division. To find the total length of the trail, you can add up the individual lengths one by one, or you can solve for the perimeter of each rectangle and find the sum the perimeters. Either way, you will get the same answer!

#1 Length = 30 m
Width = 32 m
Area = 960 m²

$$\begin{array}{r} 32 \\ 30 \overline{) 960} \\ \underline{- 90} \\ 60 \\ \underline{- 60} \\ 0 \end{array}$$

Perimeter = 124 m
30+32+30+32 = 124

#2 Length = 44 m
Width = 74 m
Area = 3,256 m²

$$\begin{array}{r} 74 \\ 44 \overline{) 3256} \\ \underline{- 308} \\ 176 \\ \underline{- 176} \\ 0 \end{array}$$

Perimeter = 236 m
44+74+44+74 = 236

#3 Length = 37 m
Width = 45 m
Area = 1,665 m²

$$\begin{array}{r} 45 \\ 37 \overline{) 1665} \\ \underline{- 148} \\ 185 \\ \underline{- 185} \\ 0 \end{array}$$

Perimeter = 164 m
37+45+37+45 = 164

#4 Length = 11 m
Width = 22 m
Area = 242 m²

$$\begin{array}{r} 22 \\ 11 \overline{) 242} \\ \underline{- 22} \\ 22 \\ \underline{- 22} \\ 0 \end{array}$$

Perimeter = 66 m
11+22+11+22 = 66

#5 Length = 21 m
Width = 33 m
Area = 693 m²

$$\begin{array}{r} 33 \\ 21 \overline{) 693} \\ \underline{- 63} \\ 63 \\ \underline{- 63} \\ 0 \end{array}$$

Perimeter = 108 m
21+33+21+33 = 108

#6 Length = 12 m
Width = 20 m
Area = 240 m²

$$\begin{array}{r} 20 \\ 12 \overline{) 240} \\ \underline{- 24} \\ 00 \\ \underline{- 00} \\ 0 \end{array}$$

Perimeter = 64 m
12+20+12+20 = 64

#7 Length = 14 m
Width = 53 m
Area = 742 m²

$$\begin{array}{r} 14 \\ 53 \overline{) 742} \\ \underline{- 53} \\ 212 \\ \underline{- 212} \\ 0 \end{array}$$

Perimeter = 134 m
14+53+14+53 = 134

#8 Length = 18 m
Width = 69 m
Area = 1,242 m²

$$\begin{array}{r} 18 \\ 69 \overline{) 1242} \\ \underline{- 69} \\ 552 \\ \underline{- 552} \\ 0 \end{array}$$

Perimeter = 174 m
18+69+18+69 = 174

#9 Length = 13 m
Width = 41 m
Area = 533 m²

$$\begin{array}{r} 41 \\ 13 \overline{) 533} \\ \underline{- 52} \\ 13 \\ \underline{- 13} \\ 0 \end{array}$$

Perimeter = 108 m
13+41+13+41 = 108

Fill out the spaces with the perimeters of the 9 rectangular loops and add them together. ➡

	<u>124 m</u>
	<u>236 m</u>
	<u>164 m</u>
	<u>66 m</u>
	<u>108 m</u>
	<u>64 m</u>
	<u>134 m</u>
	<u>174 m</u>
	<u>108 m</u>
TOTAL ➡	<u>1,178 m</u>