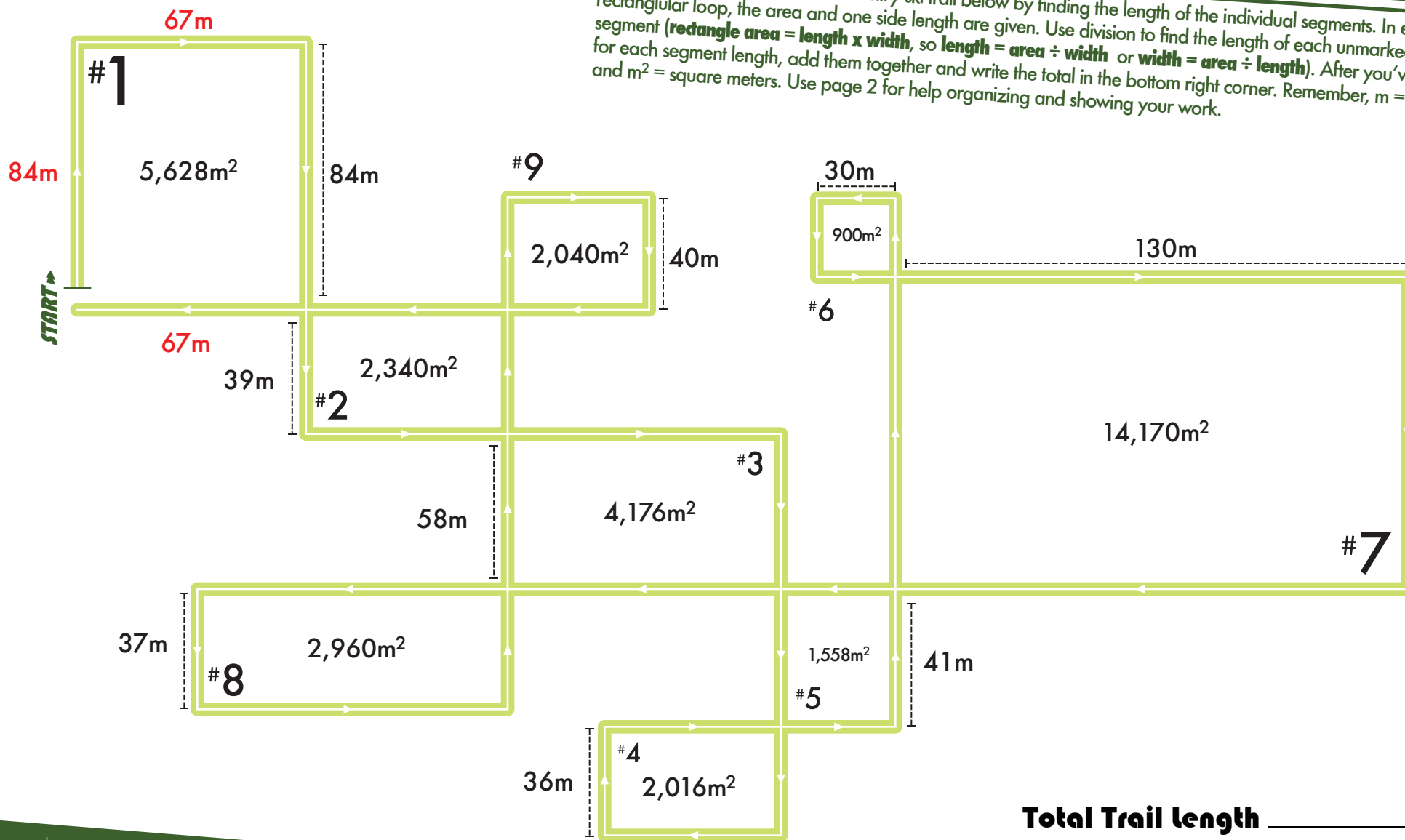# Olympic Arithmetic
ski trail tracker #2

5th Grade

Find the total length of the cross-country ski trail below by finding the length of the individual segments. In each rectanglular 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.

67m

#1

84m

5,628m² 84m

67m

START

#9

2,040m² 40m

30m

900m²

130m

#6

39m

2,340m²

#2

14,170m²

58m

4,176m²

#3

#7

37m

2,960m²

#8

1,558m² 41m

#5

36m

#4

2,016m²

Total Trail Length _____

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 = 84m
Width = 67m
Area = 5,628m^2

#2 Length = 39m
Width = _____
Area = 2,340m^2

#3 Length = 58m
Width = _____
Area = 4,176m^2

#4 Length = 36m
Width = _____
Area = 2,016m^2

#5 Length = 41m
Width = _____
Area = 1,558m^2

$$\begin{array}{r} 67 \\ 84\overline{)5{,}628} \\ -504 \\ \hline 587 \\ -587 \\ \hline 0 \end{array}$$

Perimeter = 302m
84+67+84+67 = 302

Perimeter = _____

Perimeter = _____

Perimeter = _____

Perimeter = _____

#6 Length = _____
Width = 30m
Area = 900m^2

#7 Length = _____
Width = 130m
Area = 14,170m^2

#8 Length = 37m
Width = _____
Area = 2,960m^2

#9 Length = 40m
Width = _____
Area = 2,040m^2

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

302m
_____
_____
_____
_____
_____
_____
_____

Perimeter = _____

Perimeter = _____

Perimeter = _____

Perimeter = _____

+
_____

TOTAL ▶ _____