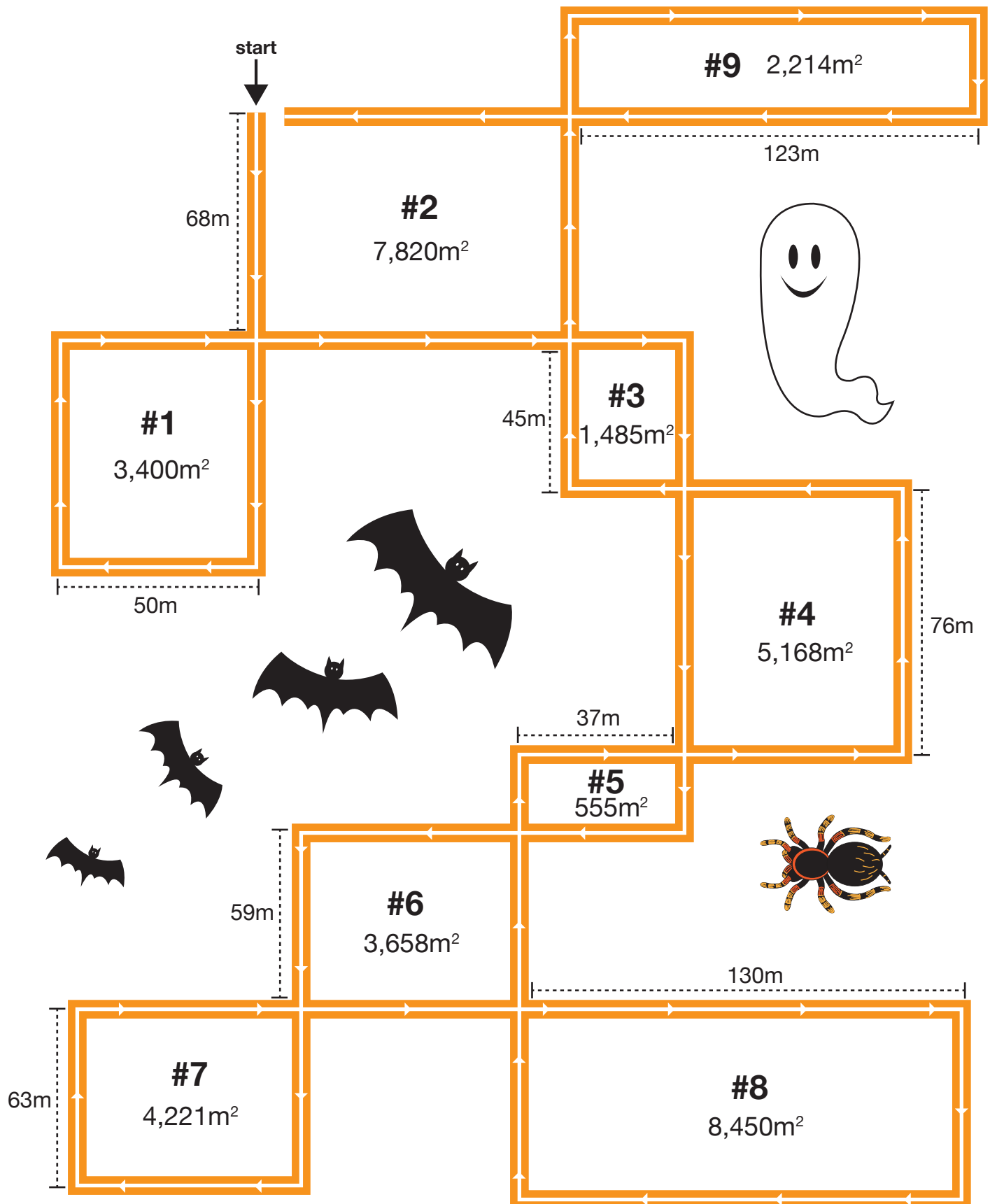


Trekking Through Transylvania

Timmy and Tina are taking their annual Halloween tour through Transylvania. Find the total length of their trek by finding the length of each segment. In each rectangular loop, the area and the length of one side are given. Use division to find the length of the unmarked side. Once you've found all the lengths, add them together to find the total length.



Trekking Through Transylvania

Use this page to organize your equations and show your work.

Remember:

area = length x width

$$\text{length} = \frac{\text{area}}{\text{width}}$$

$$\text{width} = \frac{\text{area}}{\text{length}}$$

m = meters

m² = square meters

#1

length = 50m

width = 68m

area = 3400m²

perimeter:

$$50 + 68 + 50 + 68 = 236\text{m}$$

$$\begin{array}{r} 68 \\ 50 \overline{)3400} \\ \underline{300} \\ 400 \\ \underline{400} \\ 0 \end{array}$$

#2

length =

width = 68m

area = 7820m²

perimeter:

#3

length =

width = 45m

area = 1485m²

perimeter:

#4

length =

width = 76m

area = 5168m²

perimeter:

#5

length = 37m

width =

area = 555m²

perimeter:

#6

length =

width = 59m

area = 3658m²

perimeter:

#7

length =

width = 63m

area = 4221m²

perimeter:

#8

length = 130m

width =

area = 8,450m²

perimeter:

#9

length = 123m

width =

area = 2214m²

perimeter:

Now add up all the perimeters to find the total length of the trek through Transylvania!

Total length = _____