Farmer's Fields

I can solve a problem involving perimeter and area.

Farmer Fred has calculated that he needs to have a field with an area of 30 square metres to put his goat in. He wants the field to be a square or rectangle shape. The fencing for his field costs ± 4 a metre (it is only sold in whole metres) and the special turf he is buying is ± 6 per square metre. Which shape field will be the cheapest for him? Use squared paper and a table to help.

Length	Width	Perimeter	Cost (Turf + Fencing)

The field which would cost Farmer Fred the least would have these dimensions:

length:	m	width:	m
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Farmer's Fields **Answers**

Length	Width	Perimeter	Cost (Turf + Fencing)
30	1	62m	£180 + £248 = £428
15	2	34m	£180 + £136 = £316
10	3	26m	£180 + £104 = £284
6	5	22m	£180 + £88 = £268

The field which would cost Farmer Fred the least would have these dimensions:

length: 6 m	width:	s m
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