# Unit 112: Construction operations and civil engineering operations

# Worksheet 9: Site protection – calculating the perimeter (tutor)

1. You are to work out how many sections of temporary fencing, rubber feet and clips would be needed, to surround the perimeter of the proposed construction site. Use the construction site information below and the item information on page 2.

Once you have the quantities, work how much it would cost to hire for a 4-week period from the weekly hire rate on page 2.

Complete all your workings and fill in the table provided on page 3.

24m

**A picture containing bird

Description automatically generated**

Construction site

**A picture containing bird, food

Description automatically generated**

22m

11m

39m

|  |  |  |  |
| --- | --- | --- | --- |
| Item information | | | Weekly hire rate |
| Fence panels | C:\Users\Ken\Pictures\site protection\heras%20fence%20and%20fencing.jpg | 3.45m long  per length | £5.50 |
| Rubber base feet | C:\Users\Ken\Pictures\site protection\54.jpg | 1 fence panel requires 2 bases but shares one with the next fence panel. | £2.20 |
| Clips | C:\Users\Ken\Pictures\site protection\140.jpg | 2 clips needed when fence joins together | £1.75 |

|  |  |  |  |
| --- | --- | --- | --- |
| Complete this table with final calculations | | | |
| Item | **Quantity** | **Item cost**  **(£)** | **Total cost**  **(£)** |
| Fencing | 36 | 5.50 | 1 week = 198  4 weeks = 792 |
| Rubber feet | 36 | 2.20 | 1 week = 79.2  4 weeks = 316.8 |
| Clips | 72 | 1.75 | 1 week = 126  4 weeks = 504 |
|  | |  | Total = 1612.80 |