

# Assessment Task

## TI-15 Explorer™: Area and Perimeter

AT

Name:

### The calf Paddock

A farmer has 36 metres of calf mesh fencing and 4 corner posts and as many intermediate steel posts as he needs to make a paddock for his calves.

1. What would be the dimensions of the calf paddock that would give the calves the greatest area for exercise?

Show all your working out with labelled diagrams and reasoning.

2. If each calf requires at least four square metres to exercise and grow, how many calves would be able to fit into this paddock?

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### Extension

The farmer sees a better way to fence in the calves. He decides to use an existing wall of the hay shed for one side of his calf paddock (*the hay shed is 40 m long*).

3. What will be the area of the best calf paddock now?

4. How many calves could now be kept?

Show all your working out.