1. **6,000m = 6km**

2. **4,000m = 4km**

3. **6000m + 6000m = 12,000m = 12km**

4.

Animal	Perimeter of Enclosure
Horses	56m
Pigs	40m
Cows	58m
Sheep	48m
Goats	48m
Chickens	24m

5. **The cows enclosure will take the most fencing because it has the longest perimeter.**

6. **The sheep and goats enclosures have the same perimeter: 48m.**

7. **Various answers, for example:**
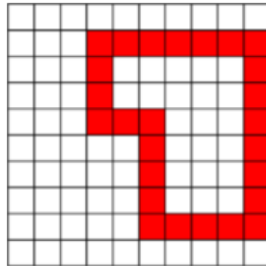
8. **24 + 24 + 38 + 38 = 124m**   **25 + 25 + 39 + 39 = 128m**
   26 + 26 + 40 + 40 = 132m   **27 + 27 + 41 + 41 = 136m**
   28 + 28 + 42 + 42 = 140m   **29 + 29 + 43 + 43 = 144m**
   30 + 30 + 44 + 44 = 148m   **31 + 31 + 45 + 45 = 152m**
   32 + 32 + 46 = 46 = 156m

9. **The barn is 12m long and 24m wide.**
   12 + 12 + 24 + 24 = 72m

10. **6km + 4km + 2km + 2km + 4km + 2km = 20km**

11. **Any thoughtful answer accepted, but it should be noted that it is unlikely that any of the solutions will work because the fox digs tunnels under fences, no matter how long or how tall they are!**