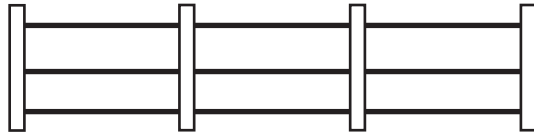


Fencing

ACTIVITY



1. Tyson and his dad are building fences on their farm. This 3-section fence has 4 posts and 9 rails:

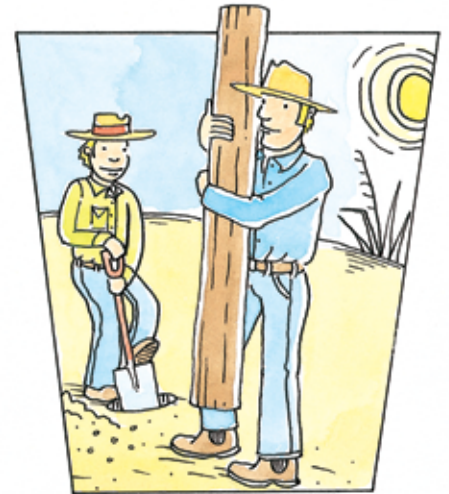


- a. Tyson thinks that a 10-section fence has 11 posts and 30 rails. Is Tyson right? Explain your answer.
 b. Calculate the number of posts and rails for a fence with 37 sections.
2. Tyson makes this drawing of a fence with 4 posts.



- a. Look carefully at the drawing and write a short cut for predicting the number of rails in a fence with 7 posts.
 b. Show how the short cut works.
 c. Complete this table using Tyson's short cut:

Number of posts	Number of rails
4	
5	
27	
95	
168	



3. a. One of the fences has 27 rails. Tyson thinks there should be 10 posts. Is he right? Explain your answer.
 b. Complete this table:

Number of posts	Number of rails
	27
	45
	93
	102
	495





4. These fences have an extra rail between the posts:

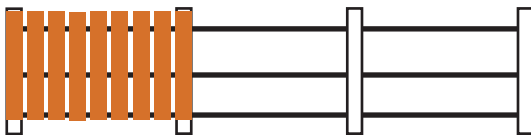


- Find a short cut for calculating the number of rails for a fence like this with 6 posts. Explain how the short cut or rule works.
- Complete the tables below using your rule.

Number of posts	Number of rails
3	
4	
6	
10	
80	
100	

Number of posts	Number of rails
	16
	40
	76
	120
	356
	4 000

5. Tyson helps his dad nail palings to the rails of a fence.



- Find a short cut to predict the number of palings for a fence with 6 posts. Explain how your short cut or rule works.
- Complete the table below.

Number of posts	Number of palings
6	
10	
27	
	33
	65

