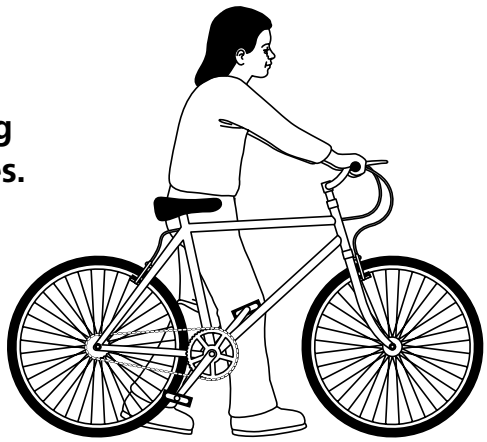
8

Name: ..... **Form:** .....

See **pages 18 and 19** of *Friction*

Rolling friction



The amount of friction that occurs when something rolls over a surface is far smaller than when it slides.

Q1. (i) Look at the picture. It shows a person pushing a bicycle with the brakes off. What kind of friction is occurring?

✎.....

(ii) When the person puts the brakes on and pushes the bike again what kind of friction will occur?

✎.....

Q2. When you use rollers instead of dragging something, do you need less than: (a) a tenth as much force; (b) a hundredth as much force; (c) a thousandth as much force?

✎.....

Q3. What is the simplest roller made from?

✎.....

Q4. Name two monuments which may have been made by moving stone slabs on rollers. Give the country where each monument is found.

1 ✎.....

2 ✎.....

Q5. How could you use a brick, a forcemeter, string and rollers to show how friction is reduced by rolling?

✎.....

✎.....

✎.....

✎.....

✎.....