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### Test Your Knowledge of The Chemistry of Elements

1. The second most abundant element in the universe.
2. The densest element.
3. The element which forms the largest number of stable isotopes.
4. The photoconducting element used in 'xerography'
5. The most electronegative metal.
6. Two ferromagnetic metals other than iron.
7. The element of highest melting point.
8. The most abundant rare gas in air.
9. The element whose production is the largest electrochemical industry in the world.
10. The element which forms the largest number of compounds.

The answers are given on page 95.

### Suggested Reading

- ◆ F M Miller. *Chemistry – Structure and dynamics*. McGraw–Hill. New York, 1985.
- ◆ N N Greenwood and A Earnshaw. *Chemistry of the elements*. Maxwell Macmillan International Edition. Pergamon Press. Oxford, 1989.

Question raised in the *Think It Over* section of *Resonance*, Vol.1, No.8

#### Which Direction Does the Frictional Force Act?

Consider a bicycle moving from the West to East. What is the frictional force acting on each wheel, when

- a) The cycle is being pedalled? and
- b) When it is moving freely (without being pedalled)?

In the August 96 issue of *Resonance*, J V Shreyas raised an innocent looking question about the forces which act on the wheels of a bicycle under various conditions. We received many responses both from students and professional scientists. We naturally cannot publish and comment on all the material which