

# Foundation

1. Is  $\sqrt{4}$  rational or irrational?
2. Is  $\sqrt{9}$  rational or irrational?
3. Is  $\sqrt{2}$  rational or irrational?
4. Is  $\pi$  rational or irrational?
5. Is 0.5 rational or irrational?
6. Is 0.25 rational or irrational?
7. Is  $\frac{3}{4}$  rational or irrational?
8. Is 7 rational or irrational?
9. Is  $\sqrt{16}$  rational or irrational?
10. Is  $\sqrt{5}$  rational or irrational?
11. Is 2.75 rational or irrational?
12. Is  $\sqrt{1}$  rational or irrational?
13. Circle the irrational number: 3,  $\sqrt{3}$ ,  $\frac{1}{2}$ .
14. Circle the rational number:  $\pi$ ,  $\sqrt{7}$ , 0.8.
15. Which is closer to 3:  $\sqrt{10}$  or  $\sqrt{8}$ ?

**16.** Complete: an irrational number cannot be written exactly as a fraction. True or false?