

**1-3****Standardized Test Prep**

## Real Numbers and the Number Line

**Multiple Choice**

For Exercises 1–6, choose the correct letter.

1. To which subset of the real numbers does  $-18$  not belong?  
A. irrational      B. rational      C. integer      D. negative integers
  
2. To which subset of the real numbers does  $\sqrt{2}$  belong?  
F. irrational      G. rational      H. integer      I. whole
  
3. You can tell that  $\pi$  is an irrational number because it has a what?  
A. non-repeating decimal      C. repeating decimal  
B. non-terminating decimal      D. non-repeating and a non-terminating decimal
  
4. What is  $\sqrt{324}$ ?  
F. 15      G. 18      H. 19      I. 24
  
5. What is  $\sqrt{196}$ ?  
A. 14      B. 0      C. 4      D. 19
  
6. What is  $\sqrt{36x^6y^4}$ ?  
F.  $6x^6y^4$       G.  $6x^3y^2$       H.  $18x^3y^2$       I.  $24x^6y^4$

**Short Response**

7. Why is 8.8 classified as a rational number?