## Simplify each expression and choose the correct answer.

- √54
  - **A.**  $18\sqrt{3}$
  - B. 3√6
  - **c**. 9√6
  - **D**.  $6\sqrt{3}$
- **3.** √192
  - $\bigcirc$  A.  $8\sqrt{3}$
  - OB. 64√3
  - **c**.  $6\sqrt{3}$
  - **D**. 48√3
- 5.√864
  - **A**.  $12\sqrt{3}$
  - **B.** 144√3
  - **c**. 12√6
  - **D.**  $144\sqrt{6}$

- $2.\sqrt{720}$ 
  - A. 144√5
  - **B.** 12√5
  - **c**. 120√3
  - **D**.  $10\sqrt{3}$
- 4. √125
  - **A**.  $25\sqrt{5}$
  - B. 5√5
  - **c**. 5√3
  - **D.**  $15\sqrt{3}$
- 6.  $\sqrt{72}$ 
  - **A.**  $6\sqrt{2}$
  - **B.**  $2\sqrt{6}$
  - oc. 36√2
  - **D**.  $12\sqrt{6}$

7.  $3\sqrt{67x}$ 

Which value of *x* makes the expression above equivalent to  $21\sqrt{67}$ ?

- **A**. 49
- B. 441
- **C.** 147
- **D.** 7

9.  $\sqrt{41x}$ 

Which value of x makes the expression above equivalent to  $22\sqrt{41}$ ?

- **A.** 44
- **B.** 484
- **C.** 22
- **D.** 902

8.  $\sqrt{145x}$ 

The expression above should be further simplified for which value of *x*?

- **A**. 61
- **B.** 94
- **C**. 3
- **D**. 235

10.  $6\sqrt{23x}$ 

Which value of x makes the expression above equivalent to  $24\sqrt{23}$ ?

- **A.** 16
- **B.** 96
- **C**. 4
- **D**. 576