

Simplify.

24.  $\sqrt{100}$

25.  $\sqrt{\frac{800}{2}}$

26.  $\sqrt{3^2 + 4^2}$

27.  $\sqrt{3 \cdot 27}$

28.  $\sqrt{a^4}$

29.  $\sqrt{(x+1)^2}$

30.  $\sqrt{(5-x)^2}$

31.  $\sqrt{(x-3)^2}$

Simplify. All variables represent nonnegative numbers.

32.  $\sqrt{125}$

33.  $\sqrt{4000}$

34.  $\sqrt{216a^2b^2}$

35.  $\sqrt{320r^2s^2}$

36.  $\sqrt{\frac{15}{64}}$

37.  $\sqrt{\frac{45}{4}}$

38.  $\sqrt{\frac{64a^4}{4a^6}}$

39.  $\sqrt{\frac{14z^3}{9z^3}}$

40.  $\sqrt{\frac{128}{81}}$

41.  $\sqrt{\frac{x^3}{y^6}}$

42.  $\sqrt{\frac{150}{196x^2}}$

43.  $\sqrt{\frac{192s^3}{49s}}$

45.  $-4\sqrt{75}$

46.  $-\sqrt{80}$

67. Which expression is in simplest form?

(A)  $\sqrt{49}$

(B)  $\sqrt{48}$

(C)  $\sqrt{35}$

(D)  $\sqrt{36}$

68. Which expression is equal to  $\sqrt{60}$ ?

(F)  $2\sqrt{15}$

(G)  $6\sqrt{10}$

(H)  $15\sqrt{2}$

(J)  $10\sqrt{60}$