

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Dividing Radicals  
Practice 3**



**Divide and Simplify.**

1.  $\sqrt{\frac{12}{9}}$

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

3.  $\sqrt{\frac{36}{4}}$

4.  $\frac{\sqrt{75}}{\sqrt{25}}$

5.  $\frac{\sqrt{100}}{\sqrt{121}}$

6.  $\sqrt{\frac{100a^2}{144b^2}}$

7.  $\sqrt{\frac{3a^2}{100b^2}}$

8.  $\sqrt{\frac{x^2}{y^2}}$

9.  $\sqrt{\frac{75bc^2}{a^2}}$

10.  $\sqrt{\frac{12}{b^2}}$

11.  $\sqrt{\frac{45}{4m^2}}$

12.  $\sqrt{\frac{2}{100}}$

**Divide.** Write all answers in simplified radical form.  
Hint: Rationalizing the Denominator.

13.  $\sqrt{\frac{5}{3}}$

14.  $\sqrt{\frac{1}{6}}$

15.  $\sqrt{\frac{4}{5}}$

16.  $\sqrt{\frac{2}{10}}$

17.  $\sqrt{\frac{18}{7}}$

18.  $\frac{\sqrt{75}}{\sqrt{3}}$

19.  $\sqrt{\frac{4}{3}}$

20.  $\sqrt{\frac{5}{3}}$

21.  $\sqrt{\frac{4h}{5}}$

22.  $\frac{\sqrt{8}}{\sqrt{6}}$

23.  $\sqrt{\frac{122}{a}}$

24.  $\frac{\sqrt{8}}{\sqrt{b}}$

**Divide.** Write all answers in simplified radical form.

Hint: Simplify the radical before rationalizing the denominator.

25.  $\sqrt{\frac{5}{12}}$

26.  $\frac{\sqrt{9}}{\sqrt{18}}$

27.  $\frac{\sqrt{8}}{\sqrt{24}}$

28.  $\frac{8}{\sqrt{8}}$

29.  $\sqrt{\frac{4y}{3y^2}}$

30.  $\frac{\sqrt{2}}{\sqrt{12}}$

31.  $\frac{\sqrt{3}}{2\sqrt{8}}$

32.  $\sqrt{\frac{n}{12}}$

33.  $\sqrt{\frac{9ab}{4ab^2}}$

34.  $\sqrt{\frac{5}{32}}$

35.  $\frac{\sqrt{3k}}{\sqrt{8}}$

36.  $\sqrt{\frac{18}{x}}$

**Evaluate:** Write all answers in simplified radical form.

37.  $\sqrt{\frac{2}{5}} \cdot \sqrt{\frac{6}{5}}$

38.  $\sqrt{\frac{3}{4}} \cdot \sqrt{\frac{5}{2}}$

39.  $\sqrt{\frac{5}{7}} \cdot \sqrt{\frac{2}{5}}$

40.  $\sqrt{\frac{6}{7}} \cdot \sqrt{\frac{1}{3}}$

41.  $\sqrt{\frac{1}{4}} \cdot \sqrt{\frac{6}{5}}$

42.  $\sqrt{\frac{1}{2}} \cdot \sqrt{\frac{5}{2}}$

43.  $\sqrt{\frac{5}{7}} \cdot \sqrt{\frac{1}{10}}$

44.  $\sqrt{\frac{4}{7}} \cdot \sqrt{\frac{1}{3}}$

45.  $\sqrt{\frac{3}{4}} \cdot \sqrt{\frac{4}{5}}$

46.  $\sqrt{\frac{1}{7}} \cdot \sqrt{\frac{7}{11}}$

47.  $\sqrt{\frac{1}{2}} \cdot \sqrt{\frac{1}{2}}$

48.  $\sqrt{\frac{3}{10}} \cdot \sqrt{\frac{1}{3}}$