

Name \_\_\_\_\_

**5-2B Lesson Master****Questions on SPUR Objectives**

See pages 320–323 for objectives.

**SKILLS** Objective B

In 1–4, rewrite each expression according to the operation.

1.  $\frac{\frac{3}{4}}{\frac{2}{3}}$ , division  
\_\_\_\_\_

2.  $\frac{r}{s} \div \frac{t}{u}$ ; multiplication  
\_\_\_\_\_

3.  $xy \div \frac{1}{w}$ , multiplication  
\_\_\_\_\_

4.  $\frac{a}{b} \div cd$ ; multiplication  
\_\_\_\_\_

In 5–14, divide the fractions. Simplify if possible.

5.  $\frac{5a^2}{6} \div \frac{25a}{3}$   
\_\_\_\_\_

6.  $\frac{16b^3}{3} \div \frac{20b^6}{9}$   
\_\_\_\_\_

7.  $\frac{49c^3}{6} \div \frac{7}{c}$   
\_\_\_\_\_

8.  $\frac{120d}{3} \div \frac{10}{d^3}$   
\_\_\_\_\_

9.  $80ef \div \frac{16f^2}{5}$   
\_\_\_\_\_

10.  $\frac{-34g}{3h} \div \frac{17g^3}{2h^2}$   
\_\_\_\_\_

11.  $7jk \div \frac{21j}{2k}$   
\_\_\_\_\_

12.  $\frac{24m}{16n^5} \div 15mn^2$   
\_\_\_\_\_

13.  $40r^2t^3 \div \frac{1}{5rt}$   
\_\_\_\_\_

14.  $\frac{56w^4}{v^3} \div 8w^3v$   
\_\_\_\_\_

Name \_\_\_\_\_

**5-2B****page 2**

15. *Multiple Choice.* Which is equivalent to  $\frac{36x^7y}{27} \div \frac{16x^5y^2}{y^5}$ ? \_\_\_\_\_

A  $\frac{x^2y^4}{12}$

B  $12x^2y^4$

C  $\frac{64x^{12}}{3y^2}$

D  $\frac{64y^2}{3x^{12}}$

In 16–25, divide the fractions. Simplify if possible.

16.  $\frac{54a^2b}{3c} \div \frac{6ab}{c^2}$

17.  $\frac{-26x^2y^5}{2x} \div \frac{13x}{y^4}$

18.  $\frac{22vw}{15} \div \frac{33v}{5w}$

19.  $\frac{68}{t^3} \div \frac{2t}{3}$

20.  $\frac{\frac{d}{e}}{d^2}$

21.  $\frac{\frac{3f^4}{6f^2}}{g}$

22.  $\frac{\frac{-18h^2}{j}}{\frac{-24h^3}{j^2}}$

23.  $\frac{30m^7}{7n^4} \div \frac{-12m^3}{14n^5}$

24.  $\frac{72p^3}{q^2} \div \frac{16p^5}{q^4}$

25.  $\frac{\frac{144rst}{24s^2}}{t^3}$