

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

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