

Name _____

5-1A Lesson Master

Questions on SPUR Objectives

See pages 320–323 for objectives.

SKILLS Objective A

1. *Multiple Choice.* Which does not equal the others? _____

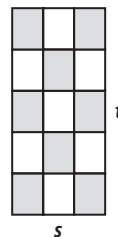
A $\frac{4}{7}m$

B $\frac{4m}{7}$

C $4 \cdot \frac{m}{7}$

D $\frac{1}{7} \cdot \frac{m}{4}$

2. The largest rectangle at the right has base s and height t . If all the smallest rectangles have the same dimensions, what product of algebraic fractions is represented by the shaded region?



In 3–8, simplify.

3. $\frac{-6xy^2}{15xy}$ _____

4. $\frac{144acd}{30bcd}$ _____

5. $\frac{210ac^2}{14dc^3}$ _____

6. $\frac{190x^2z^2}{45z}$ _____

7. $\frac{16xyz}{20xy^5}$ _____

8. $\frac{18p^4q^5}{27p^8q^8}$ _____

In 9–18, multiply the fractions. Simplify if possible.

9. $\frac{4zw}{17y} \cdot \frac{8wy}{3z}$ _____

10. $\frac{3x}{4} \cdot \frac{12x}{7}$ _____

11. $\frac{2n}{9} \cdot \frac{27n}{4n^2}$ _____

12. $\frac{1}{235xy^2z} \cdot \frac{55z}{13}$ _____

13. $\frac{3x^3y^2}{2} \cdot \frac{4x}{27y^4}$ _____

14. $\frac{-23ab^2}{12} \cdot \frac{15b}{a}$ _____

15. $\frac{16k^2}{13l} \cdot \frac{-52l^3k}{12}$ _____

16. $\frac{41x^4}{7} \cdot \frac{16z}{x^3} \cdot \frac{1}{4}$ _____

17. $\frac{-12x^2}{5z} \cdot \frac{14xz}{-3} \cdot \frac{-z}{7}$ _____

18. $\frac{23x}{2xy^3z} \cdot \frac{-12}{xy^3z} \cdot \frac{3}{4xy^3z}$ _____