

Name_____

Period_____

Multiplying Rational Expressions

Simplify each expression.

$$1) \frac{59n}{99} \cdot \frac{80}{33n}$$

$$2) \frac{53}{43} \cdot \frac{46n^2}{31}$$

$$3) \frac{93}{21n} \cdot \frac{34n}{51n}$$

$$4) \frac{79n}{25} \cdot \frac{85}{27n^2}$$

$$5) \frac{96}{38n} \cdot \frac{25}{45}$$

$$6) \frac{84}{3} \cdot \frac{48x}{95}$$

$$7) \frac{6(r+2)}{20} \cdot \frac{4r}{6(r+2)}$$

$$8) \frac{7n^2(n+4)}{(n-3)(n+4)} \cdot \frac{n-3}{(n+8)(n+6)}$$

$$9) \frac{2(p+6)}{4} \cdot \frac{p-3}{2(p-3)}$$

$$10) \frac{9(r+4)}{r+4} \cdot \frac{9r}{9(r-5)}$$

$$11) \frac{8(m+1)}{7m} \cdot \frac{9}{8(m+1)}$$

$$12) \frac{(p+6)(p-4)}{p-4} \cdot \frac{1}{(p-4)(p-2)}$$

$$13) \frac{1}{v+10} \cdot \frac{10v+30}{v+3}$$

$$14) \frac{7n}{24n^3-64n^2} \cdot \frac{9n-24}{7n}$$