

MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS DAY 2

1. $\frac{4p+8}{p^2-2p} \cdot \frac{p-2}{p+2}$	2. $\frac{6x^2+x-1}{2x+1} \div (9x-3)$
3. $\frac{x^2-49}{x^2+5x} \cdot \frac{x+5}{x+7}$	4. $\frac{6x^2+36x}{4x} \div \frac{4x+24}{2x^2}$
5. $\frac{y^2-36}{y^2-25} \cdot \frac{y+5}{y-6}$	6. $\frac{x^2-2x-15}{x-2} \div \frac{x^2-10x+25}{x-2}$
7. $\frac{n^2+10n+16}{5n-10} \cdot \frac{n-2}{n^2+9n+8}$	8. $\frac{b+4}{b^2-6b-16} \div \frac{2b+8}{b-8}$
9. $\frac{2n^2-10n}{n^2-9n+20} \cdot \frac{n^2-8n+16}{4n^2}$	10. $\frac{9x^3}{x^3-x} \div \frac{x-8}{x^2-9x+8}$

find a simplified expression that makes the statement true.

11. $\frac{p^2+10p+24}{p^2-4p-32} \cdot \frac{\boxed{?}}{p^2+p-56} = \frac{p+6}{p-7}$

12. $\frac{9x^2-1}{\boxed{?}} \cdot \frac{x^3+4x^2}{3x^2-x} = \frac{3x+1}{x-5}$

$$13. \frac{n^2 - 1}{n^2 - 7n + 10} \cdot \frac{n^2 - 25}{n^2 + 6n + 5}$$

$$14. \frac{3p - 3r}{10pr} \cdot \frac{20p^2r^2}{p^2 - r^2}$$

$$15. \frac{6x^2 + 6x}{x^2 - 3x - 4} \cdot \frac{2x^2 - 7x - 4}{8x^3 + 4x^2}$$

$$16. \frac{v^2 - 4v - 21}{3v^2 + 6v} \cdot \frac{v^2 + 8v}{v^2 + 11v + 24}$$

$$13. \frac{n^2 - 1}{n^2 - 7n + 10} \cdot \frac{n^2 - 25}{n^2 + 6n + 5}$$

$$14. \frac{3p - 3r}{10pr} \cdot \frac{20p^2r^2}{p^2 - r^2}$$

$$15. \frac{6x^2 + 6x}{x^2 - 3x - 4} \cdot \frac{2x^2 - 7x - 4}{8x^3 + 4x^2}$$

$$16. \frac{v^2 - 4v - 21}{3v^2 + 6v} \cdot \frac{v^2 + 8v}{v^2 + 11v + 24}$$