



Puzzle Time

What Is Black And White And Red All Over?

Write the letter of each answer in the box containing the exercise number.

Simplify the expression, if possible.

1. $\frac{45}{10x - 15}$

2. $\frac{x - 7}{x^2 - 3x - 28}$

3. $\frac{2x}{3x^2 + 8}$

Find the product or quotient.

4. $\frac{y}{x^2 - 1} \cdot \frac{x - 1}{2y}$

5. $\frac{3x}{x + 1} \cdot (x^2 + 2x + 1)$

6. $\frac{(x + 3)}{(x + 2)} \div \frac{(x - 1)(x + 3)}{(x - 1)^2}$

7. $\frac{1}{x + 9} \div \frac{6 - x}{3x - 18}$

8. $\frac{10x^2yz^4}{5xy^3} \div 2x^5y^2z$

9. $\frac{x - 8}{x^2 - 2x - 48} \cdot \frac{4x^2 + 40x}{x + 10}$

10. $\frac{1}{5x^2} \div \frac{9x - 36}{5x^3 - 35x^2}$

Answers

E. $\frac{4x}{x + 6}, x \neq -10, x \neq 8$

S. $3x(x + 1), x \neq -1$

A. $\frac{9}{2x - 3}$

P. $\frac{z^3}{x^4y^4}, z \neq 0$

N. $\frac{1}{x + 4}, x \neq 7$

W. $\frac{1}{2(x + 1)}, x \neq 1, y \neq 0$

P. $\frac{x - 1}{x + 2}, x \neq -3, x \neq 1$

R. $\frac{x - 7}{9(x - 4)}, x \neq 0, x \neq 7$

E. $\frac{2x}{3x^2 + 8}$

A. $-\frac{3}{x + 9}, x \neq 6$

1		2	3	4	5	6	7	8	9	10
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