



Multiplying and Dividing Algebraic Fractions

Name:.....

Date:.....

Write this as a single fraction as simply as possible:

$$\frac{3g}{2} \times \frac{6g}{9}$$

A 1 B $\frac{18g^2}{18}$
C g^2 D $\frac{g}{2}$

Correct Answer: A B C D

Explanation:

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Write this as a single fraction as simply as possible:

$$\frac{3}{10h} \times \frac{8h}{9}$$

A $\frac{4h}{15}$ B $\frac{4h^2}{15}$
C $\frac{4}{15}$ D $\frac{24h}{90h}$

Correct Answer: A B C D

Explanation:

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Write this as a single fraction as simply as possible:

$$\frac{5n}{2} \div \frac{6n}{10}$$

A $\frac{30n^2}{20}$ B $\frac{3n^2}{2}$
C $\frac{25}{6}$ D $\frac{50n}{12n}$

Correct Answer: A B C D

Explanation:

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Write this as a single fraction as simply as possible:

$$\frac{6x + 3}{7x} \div \frac{2x + 1}{14}$$

- A** $\frac{(6x + 3)(2x + 1)}{98x}$ **B** $\frac{2(6x + 3)}{x(2x + 1)}$
C $\frac{3}{2x}$ **D** $\frac{6}{x}$

Correct Answer: A B C D

Explanation:

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The expression $\frac{7}{p} \div \frac{14}{p}$ simplifies to:

- A** $\frac{98}{p^2}$
B $\frac{1}{2}$
C $\frac{98}{p}$
D $\frac{7p}{14p}$

Correct Answer: A B C D

Explanation:

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Write this as a single fraction as simply as possible:

$$\frac{x^2 - 16}{3x - 15} \div \frac{x^2 - 2x - 8}{x^2 - 6x + 5}$$

- A** $\frac{x^4 - 6x - 80}{x^2 - 6x + 90}$ **B** $\frac{(x - 4)(x - 5)}{3(x + 2)}$
C $\frac{(x + 4)(x - 1)(x - 5)}{(3x - 15)(x + 2)}$ **D** $\frac{(x + 4)(x - 1)}{3(x + 2)}$

Correct Answer: A B C D

Explanation:

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