

P.I. A.A.17: Add or subtract fractional expressions with monomial or like binomial denominators

Add:

1. $\frac{5}{x} + \frac{2}{7x^2}$

2. $\frac{4}{x} + \frac{3}{5x^2}$

3. $\frac{6}{x} + \frac{7}{4x^2}$

4. The fifth and sixth terms of 10 data items, arranged in order from least to greatest, are $\frac{x+5}{x}$ and $\frac{3x+1}{2x}$.

What is the median of the data?

5. Compare the quantity in Column A with the quantity in Column B.

| | |
|---------------------------------|---------------------|
| <u>Column A</u> | <u>Column B</u> |
| $\frac{(x+2)}{x} + \frac{1}{3}$ | $\frac{(4x+6)}{3x}$ |

[A] The quantity in Column A is greater.

[B] The quantity in Column B is greater.

[C] The two quantities are equal.

[D] The relationship cannot be determined on the basis of the information supplied.

6. Compare the quantities in Column A and Column B.

| | |
|---|---|
| <u>Column A</u> | <u>Column B</u> |
| the numerator when | the numerator when |
| $\frac{3}{2x} + \frac{4}{6x^2}$ is simplified | $\frac{3}{2x} - \frac{4}{6x^2}$ is simplified |

[A] The quantity in Column A is greater.

[B] The quantity in Column B is greater.

[C] The quantities are equal.

[D] The relationship cannot be determined from the information given.

Integrated Algebra Practice: A.A.17 #2

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[1] $\frac{35x+2}{7x^2}$

[2] $\frac{20x+3}{5x^2}$

[3] $\frac{24x+7}{4x^2}$

[4] $\frac{5x+11}{4x}$

[5] $\frac{C}{\quad}$

[6] $\frac{A}{\quad}$