Integrated Algebra Practice: A.N.5 #5

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P.I. A.N.5: Solve algebraic problems arising from situations that involve fractions, decimals and percents (decrease/increase and discount), and proportionality/direct variation

Solve:

1. $\frac{k}{3} = \frac{4}{36}$ [A] $\frac{1}{3}$ [B] $\frac{1}{12}$ [C] 12 [D] 3

2. $\frac{s}{3} = \frac{4}{36}$ [A] 3 [B] $\frac{1}{3}$ [C] 12 [D] $\frac{1}{12}$

3. Solve: $\frac{x}{4} = \frac{3}{4}$ [A] 3 [B] $1\frac{1}{12}$ [C] $\frac{5}{12}$ [D] $\frac{3}{16}$

4. Solve: $\frac{x}{6} = \frac{3}{4}$ [A] $\frac{1}{4}$ [B] $4\frac{1}{2}$ [C] $1\frac{1}{4}$ [D] $\frac{1}{8}$

Solve:

5. $\frac{j}{2} = \frac{3}{12}$

6. $\frac{d}{3} = \frac{3}{27}$

7. $\frac{4}{15} = \frac{x}{3}$

8. $\frac{16}{21} = \frac{x}{9}$

9. Which equation does *not* have the same solution as $\frac{15}{x} = \frac{8}{45}$?

   [A] $\frac{45}{x} = \frac{8}{15}$ [B] $\frac{x}{15} = \frac{45}{8}$ [C] $\frac{15}{8} = \frac{x}{45}$ [D] $\frac{8}{15} = \frac{45}{x}$ [E] $\frac{15}{45} = \frac{x}{8}$

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

Column A	Column B
the solution to $\frac{3}{4} = \frac{8}{x}$	the solution to $\frac{x}{4} = \frac{8}{3}$

[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.

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[1] A

[2] B

[3] A

[4] B

[5] $\frac{1}{2}$

[6] $\frac{1}{3}$

[7] $\frac{4}{5}$

[8] $6\frac{6}{7}$

[9] E

[10] C