

Grade 8 Mathematics Worksheet

Algebraic equations

Questions:

- 1. $\frac{2}{3} + \frac{1}{5} = \frac{5}{6} + \dots$
 - A) $\frac{8}{9}$
 - B) $-\frac{11}{4}$
 - C) $\frac{1}{30}$
 - D) $-\frac{2}{2}$



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Solution

Algebraic:

$$\frac{2}{3} + \frac{1}{5} = \frac{5}{6} + x$$

$$\therefore \frac{10+3}{15} = \frac{6x+5}{6}$$

$$\therefore \frac{13}{15} = \frac{6x+5}{6}$$

$$\therefore 78 = 90x + 75$$

$$..90x = 3$$

$$\therefore x = \frac{3}{90} = \frac{1}{30}$$

Answer is (C)

Numerical:

$$\frac{2}{3} + \frac{1}{5} = \frac{5}{6} + \dots$$

LCD: 3.5, and 6=30

$$\therefore \frac{2}{3} + \frac{1}{5} = \frac{20+6}{30} = \frac{26}{30}$$

$$and \frac{5}{6} = \frac{25}{30}$$

$$So: \frac{25}{30} + \frac{1}{30} = \frac{26}{30}$$

So the answer is C

This question is difficult. Learners do not need algebra here, but it sure makes it easier to solve. The question can be asked at a grade 7 level, but then the tools that learners will use will be different or possibly not.