GRADE 6 MATH · HOMEWORK · ADVANCED

Simplify Algebraic Expressions with Fractions

SCORE / 25

01 Part A · Practice

With fraction coefficients, use a common denominator to add or subtract the coefficients of like terms.

1 ●○○ Simplify $y + \frac{1}{2}x + \frac{3}{2}x + 1 + \frac{1}{2}y$. What is the coefficient of y after simplifying?

2 ●○○ Combine like terms.

$\frac{1}{4}m + 1 + \frac{1}{4}m + \frac{1}{2}b + \frac{15}{8}b$

3 ●○○ Simplify. $\frac{3}{2}y + \frac{5}{6} + n - \frac{1}{2}y + \frac{3}{2}n$

4 ●○○ Simplify. $\frac{3}{4}x + \frac{11}{6}y + \frac{1}{3} + \frac{1}{6}y + \frac{23}{12}x$

5 ●○○ Combine like terms.

$\frac{5}{4}m - \frac{1}{4}m + \frac{1}{2} + b + \frac{3}{4}b$

6 ●○○ Simplify $\frac{23}{12}a + \frac{7}{4}m - \frac{5}{3}a + \frac{3}{4}m + \frac{1}{4}$. What is the coefficient of a after simplifying?

7 ●○○ Simplify. $\frac{4}{5}x + \frac{6}{5}x + \frac{8}{5} + \frac{1}{5}y + \frac{2}{5}y$

8 ●○○ Simplify $\frac{5}{6}a + y + \frac{1}{2} + \frac{1}{3}a + \frac{1}{2}y$. What is the coefficient of a after simplifying?

9 ●○○ Combine like terms.

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

10 ●○○ Combine like terms.

$\frac{23}{12}x + \frac{19}{12} - \frac{1}{6}y + y + \frac{1}{3}x$

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Preview - the full worksheet and its answer key are at primeworksheet.com