Name: _____ Date: _____

Simplification Worksheet (Class 6)

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Simplify the given expressions. Show your working if needed.

1. Simplify the following fractions.

a) $\frac{6}{8}$ = _____

b) $\frac{15}{20}$ = _____

c) $\frac{9}{12}$ = _____

d) $\frac{14}{21}$ = _____

e) $\frac{25}{35}$ = _____

f) $\frac{18}{24}$ = _____

g) $\frac{16}{32}$ = _____

h) $\frac{27}{36}$ = _____

i) $\frac{40}{56}$ = _____

j) $\frac{45}{60}$ = _____

2. Simplify the following mixed numbers.

a) $2\frac{3}{4}$ = _____

b) $5\frac{6}{8}$ = _____

c) $7\frac{4}{6}$ = _____

d) $3\frac{9}{12}$ = _____

e) $6\frac{15}{20}$ = _____

f) $8\frac{10}{15}$ = _____

g) $4\frac{14}{21}$ = _____

h) $9\frac{12}{18}$ = _____

i) $5\frac{20}{30}$ = _____

j) $7\frac{6}{9}$ = _____

3. Simplify the following decimals.

a) 0.6 + 0.4 = _____

b) 1.25 + 0.75 = _____

c) 3.5 − 1.8 = _____

d) 5.72 − 2.36 = _____

e) 7.8 + 0.25 = _____

f) 9.6 − 4.3 = _____

g) 0.45 + 0.35 = _____

h) 6.28 − 2.19 = _____

i) 2.5 + 3.75 = _____

j) 5.8 − 1.45 = _____

4. Simplify the following expressions using BODMAS.

a) 5 + 3 × 4 = _____

b) (8 + 2) × 3 = _____

c) 20 − 6 ÷ 3 = _____

d) 12 + 4 × 5 = _____

e) 36 ÷ 6 + 7 = _____

f) (15 − 5) ÷ 2 = _____

g) 18 − 3 × 4 = _____

h) 7 + (12 ÷ 3) = _____

i) 50 ÷ (5 × 2) = _____

j) (9 + 3) × 2 − 5 = _____

5. Simplify the following by combining like terms.

a) 3x + 5x = _____

b) 7a − 4a = _____

c) 6m + 2m + 3m = _____

d) 9y − 5y + 2y = _____

e) 8p + 3q + 5p = _____

f) 12x − 7x − 3x = _____ = _____

g) 4a + 6 − a + 2 = _____ = _____

h) 10b − 5 + 3b − 8 = _____ = _____

i) 7m + 4n − 3m − n = _____ = _____

j) 11x − 6y + 2x + 5y = _____ = _____

6. Simplify the following expressions.

a) 4(x + 3) = _____

b) 5(2x − 1) = _____

c) 3(a + 7) − 2a = _____

d) 6(3y − 2) + 5y = _____

e) 7(4m + 1) − 3m = _____

f) 9(2p − 3) + 4p = _____

g) 5(3x + 2) − 7x = _____

h) 8(5y − 4) + 6 = _____

i) 6(2a + 3) − 5a = _____

j) 4(7m − 2) + 3m = _____

7. Simplify the following.

a) $\frac{3}{5} + \frac{2}{5}$ = _____

b) $\frac{7}{8} - \frac{1}{8}$ = _____

c) $\frac{5}{6} + \frac{1}{6}$ = _____

d) $\frac{9}{10} - \frac{3}{10}$ = _____

e) $\frac{11}{12} - \frac{5}{12}$ = _____

f) $\frac{4}{9} + \frac{5}{9}$ = _____

g) $\frac{7}{15} - \frac{2}{15}$ = _____

h) $\frac{13}{20} + \frac{7}{20}$ = _____

i) $\frac{17}{24} - \frac{5}{24}$ = _____

j) $\frac{19}{30} + \frac{11}{30}$ = _____

8. Simplify the following word expressions.

a) 5 more than a number = _____

b) 3 less than a number = _____

c) The product of 6 and a number = _____

d) The quotient of a number and 5 = _____

e) 4 times a number plus 7 = _____

f) 12 divided by a number = _____

g) The sum of a number and 9 = _____

h) The difference of a number and 15 = _____

i) 8 times the sum of a number and 2 = _____

j) The quotient of a number and 3, increased by 5 = _____