Unit 3 Quiz Review

1) $-\frac{7}{12} - \frac{3}{12}$

$-7-3=-10$

$\frac{-10\div2}{12\div2} = \frac{-5}{6}$

2) $2\frac{1}{3} - \frac{7}{8}$

$\frac{8\cdot7}{8\cdot3} - \frac{7\cdot3}{8\cdot3}$

$\frac{56}{24} - \frac{21}{24} = \frac{35}{24}$

$\frac{56}{-21}$

$\frac{56}{-21}$

$\frac{56}{35}$

3) $\left(-3\frac{4}{5}\right) + 4\frac{2}{3}$

$\frac{3\cdot19}{3\cdot5} + \frac{14\cdot5}{3\cdot5}$

$\frac{-57}{15} + \frac{70}{15} = \frac{13}{15}$

$70-57$

4) $-\frac{11}{12}\cdot-\frac{2}{3}$ $-\cdot-=+$

$\frac{11\cdot2}{12\cdot3}$

$\frac{22\div2}{36\div2} = \frac{11}{18}$

5) $-\frac{7}{15}\div\frac{3}{5}$

$-\frac{7}{15}\cdot\frac{5}{3}$

$\frac{-35\div5}{45\div5} = \frac{-7}{9}$

6) $4\frac{3}{4}\div3\frac{3}{8}$

$\frac{19}{4}\div\frac{27}{8}$

$\frac{19}{4}\cdot\frac{8^2}{27} = \frac{38}{27}$

7) A cookie recipe calls for $2\frac{1}{4}$ cups of flour. If Ms. Hall triples the recipe, how much flour will she need?

$2\frac{1}{4}\cdot3$

$\frac{9}{4}\cdot\frac{3}{1} = \frac{27}{4}$ c.

or $6\frac{3}{4}$

8) Ms. Pint ran two 10k races last year. Her first time was $58\frac{5}{8}$ minutes. Her second time was $57\frac{3}{4}$ minutes. How much faster was she on the second race?

$58\frac{5}{8} - 57\frac{3}{4}$

$\frac{469}{8} - \frac{231\cdot2}{4\cdot2}$

$\frac{469}{8} - \frac{462}{8} = \frac{7}{8}$ min

A $1\frac{1}{2}$ minutes

B $1\frac{1}{8}$ minutes

C $\frac{7}{8}$ minute

D $1\frac{1}{4}$ minutes

For questions 9-10, evaluate if $x = 3\frac{1}{2}$ and $y = -\frac{5}{6}$

9) $x - y$

$3\frac{1}{2} - -\frac{5}{6}$

$\frac{3\cdot7}{3\cdot2} - -\frac{5}{6}$

$\frac{21}{6} + +\frac{5}{6} = \frac{26\div2}{6\div2} = \frac{13}{2}$

10) $x \div y$

$3\frac{1}{2}\div-\frac{5}{6}$

$\frac{7}{2}\div-\frac{5}{6}$

$\frac{7}{2}\cdot\frac{-6}{5} = \frac{-42\div2}{10\div2}$

$\frac{-21}{5}$