

**SOL Alignment and Levels of Cognitive Demand
Grade 4**

STANDARD 4.5

The student will

- a) determine common multiples and factors, including least common multiple and greatest common factor;
 - b) add and subtract fractions having like and unlike denominators that are limited to 2, 3, 4, 5, 6, 8, 10, and 12, and simplify the resulting fractions, using common multiples and factors;
 - c) add and subtract with decimals; and
 - d) **solve single-step and multistep practical problems involving addition and subtraction with fractions and with decimals.**
- **Solve problems that involve adding and subtracting with fractions having like and unlike denominators whose denominators are limited to 2, 3, 4, 5, 6, 8, 10, and 12, and simplify the resulting fraction using common multiples and factors.**

Problem:	Alignment to standard: Yes/no	Level of cognitive demand: Low/medium/not aligned	Answer and EKS correlation:
1	Yes	Medium	$\frac{1}{4}$
2	Yes	Low	$\frac{5}{8}$ mi
3	Yes	Low	$\frac{7}{12}$
4	No		d; it is not a practical problem
5	Yes	Low	$\frac{1}{2}$ yd
6	Yes	Low	$\frac{11}{12}$
7	No		c; it is not a practical problem
8	Yes	Medium	First and second situation