Name _____

# ALGEBRA
## Lesson 6.10

## Use Properties of Addition

**COMMON CORE STANDARD** CC.5.NF.1

Use equivalent fractions as a strategy to add and subtract fractions.

**Use the properties and mental math to solve. Write your answer in simplest form.**

1. $\left(2\frac{1}{3} + 1\frac{2}{5}\right) + 3\frac{2}{3}$

$= \left(1\frac{2}{5} + 2\frac{1}{3}\right) + 3\frac{2}{3}$

$= 1\frac{2}{5} + \left(2\frac{1}{3} + 3\frac{2}{3}\right)$

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

$= 7\frac{2}{5}$

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2. $8\frac{1}{5} + \left(4\frac{2}{5} + 3\frac{3}{10}\right)$

_____

3. $\left(1\frac{3}{4} + 2\frac{3}{8}\right) + 5\frac{7}{8}$

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4. $2\frac{1}{10} + \left(1\frac{2}{7} + 4\frac{9}{10}\right)$

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5. $\left(4\frac{3}{5} + 6\frac{1}{3}\right) + 2\frac{3}{5}$

_____

6. $1\frac{1}{4} + \left(3\frac{2}{3} + 5\frac{3}{4}\right)$

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7. $\left(7\frac{1}{8} + 1\frac{2}{7}\right) + 4\frac{3}{7}$

_____

8. $3\frac{1}{4} + \left(3\frac{1}{4} + 5\frac{1}{5}\right)$

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9. $6\frac{2}{3} + \left(5\frac{7}{8} + 2\frac{1}{3}\right)$

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## Problem Solving REAL WORLD

10. Elizabeth rode her bike $6\frac{1}{2}$ miles from her house to the library and then another $2\frac{2}{5}$ miles to her friend Milo's house. If Carson's house is $2\frac{1}{2}$ miles beyond Milo's house, how far would she travel from her house to Carson's house?

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11. Hassan made a vegetable salad with $2\frac{3}{8}$ pounds of tomatoes, $1\frac{1}{4}$ pounds of asparagus, and $2\frac{7}{8}$ pounds of potatoes. How many pounds of vegetables did he use altogether?

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## Lesson Check (CC.5.NF.1)

1. What is the sum of $2\frac{1}{3}$, $3\frac{5}{6}$, and $6\frac{2}{3}$?

   Ⓐ $12\frac{5}{6}$

   Ⓑ $11\frac{5}{6}$

   Ⓒ $11\frac{8}{12}$

   Ⓓ $11\frac{10}{18}$

2. Letitia has $7\frac{1}{6}$ yards of yellow ribbon, $5\frac{1}{4}$ yards of orange ribbon, and $5\frac{1}{6}$ yards of brown ribbon. How much ribbon does she have altogether?

   Ⓐ $18\frac{7}{12}$ yards

   Ⓑ $18\frac{1}{6}$ yards

   Ⓒ $17\frac{7}{12}$ yards

   Ⓓ $17\frac{3}{16}$ yards

## Spiral Review (CC.5.OA.1, CC.5.NBT.6, CC.5.NBT.7, CC.5.NF.1)

3. Juanita wrote $3 \times 47$ as $3 \times 40 + 3 \times 7$. Which property did she use to rewrite the expression? **(Lesson 1.3)**

   Ⓐ Associative Property of Multiplication

   Ⓑ Commutative Property of Multiplication

   Ⓒ Distributive Property

   Ⓓ Identity Property

4. What is the value of the expression $18 - 2 \times (4 + 3)$. **(Lesson 1.11)**

   Ⓐ 4

   Ⓑ 7

   Ⓒ 13

   Ⓓ 112

5. Evan spent $\$15.89$ on 7 pounds of birdseed. How much did the birdseed cost per pound? **(Lesson 5.4)**

   Ⓐ $\$2.07$

   Ⓑ $\$2.12$

   Ⓒ $\$2.27$

   Ⓓ $\$2.29$

6. Cade rode $1\frac{3}{5}$ miles on Saturday and $1\frac{3}{4}$ miles on Sunday. How far did he ride in all on the two days? **(Lesson 6.6)**

   Ⓐ $2\frac{7}{20}$ miles

   Ⓑ $2\frac{9}{20}$ miles

   Ⓒ $3\frac{3}{10}$ miles

   Ⓓ $3\frac{7}{20}$ miles