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Grade 5, Unit 6, Section B: Additional Practice Problems

1. Find the value of each sum or difference.

   a. $\frac{2}{3} - \frac{1}{2}$

   b. $\frac{2}{3} + \frac{1}{6}$

   c. $\frac{1}{2} - \frac{1}{6}$

   d. $\frac{1}{6} + \frac{1}{2}$

(From Unit 6, Lesson 8)

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2. Which expressions are equivalent to $1\frac{2}{3} + \frac{1}{4}$? Select all that apply.

A. $\frac{20}{12} + \frac{1}{4}$

B. $1\frac{2}{3} + \frac{3}{12}$

C. $\frac{20}{12} + \frac{3}{12}$

D. $1\frac{1}{4} + \frac{2}{3}$

E. $1\frac{8}{12} + \frac{1}{12}$

(From Unit 6, Lesson 9.)

3. Which work correctly finds the sum $\frac{3}{10} + \frac{2}{9}$?

A. $\frac{3}{10} + \frac{2}{9} = \frac{27}{90} + \frac{20}{90} = \frac{47}{90}$

B. $\frac{3}{10} + \frac{2}{9} = \frac{12}{19} + \frac{12}{19} = \frac{24}{19}$

C. $\frac{3}{10} + \frac{2}{9} = \frac{3}{90} + \frac{2}{90} = \frac{5}{90}$

D. $\frac{3}{10} + \frac{2}{9} = \frac{3}{19} + \frac{2}{19} = \frac{5}{19}$

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Which work correctly finds the sum $\frac{7}{8} - \frac{2}{3}$?

A. $\frac{7}{8} - \frac{2}{3} = \frac{7}{5} - \frac{2}{5} = \frac{5}{5}$

B. $\frac{7}{8} - \frac{2}{3} = \frac{21}{24} - \frac{16}{24} = \frac{5}{24}$

C. $\frac{7}{8} - \frac{2}{3} = \frac{7}{24} - \frac{2}{24} = \frac{5}{24}$

D. $\frac{7}{8} - \frac{2}{3} = \frac{4}{5} - \frac{1}{5} = \frac{3}{5}$

(From Unit 6, Lesson 10.)

4. a. Which expression is equivalent to $2\frac{3}{5} - \frac{1}{4}$?

A. $2\frac{3}{20} - \frac{1}{20}$

B. $2\frac{3}{20} - \frac{5}{20}$

C. $2\frac{12}{20} - \frac{6}{20}$

D. $2\frac{12}{20} - \frac{5}{20}$

b. Find the value of $2\frac{3}{5} - \frac{1}{4}$?

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(From Unit 6, Lesson 11.)

5. It takes Noah $4\frac{1}{5}$ hours to build a wooden doghouse.

   a. He has been building for $2\frac{1}{10}$ hours. How much longer does he have left to complete the doghouse? Explain or show your reasoning.

   A. $2\frac{1}{10}$

   B. $2\frac{1}{5}$

   C. $6\frac{1}{5}$

   D. $6\frac{3}{10}$

   b. Noah can build a birdhouse in $2\frac{3}{10}$ hours. How much faster is building a birdhouse than a doghouse? Explain or show your reasoning.

   A. $1\frac{1}{5}$

   B. $1\frac{1}{9}$

   C. $6\frac{1}{2}$

   D. $6\frac{2}{5}$

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(From Unit 6, Lesson 12.)

6. a. Use equivalent fractions to find the value of $\frac{5}{12} + \frac{4}{10}$.

$\frac{5}{12} =$ _____

$\frac{4}{10} =$ _____

$\frac{5}{12} + \frac{4}{10} =$ _____

b. Use equivalent fractions to find the value of $\frac{5}{12} - \frac{2}{7}$.

$\frac{5}{12} =$ _____

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

$\frac{5}{12} - \frac{2}{7} =$ _____

(From Unit 6, Lesson 13.)

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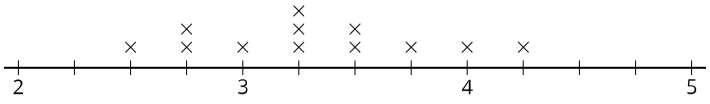
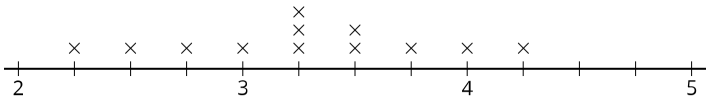
7. Here are the number of cups of strawberries used in different smoothie recipes:

$2\frac{1}{2}$	$4\frac{3}{4}$	$3\frac{1}{4}$	$4\frac{1}{4}$
$3\frac{1}{2}$	$3\frac{3}{4}$	$3\frac{1}{2}$	$2\frac{3}{4}$
$3\frac{1}{2}$	$3\frac{3}{4}$	$2\frac{3}{4}$	$4\frac{1}{2}$

A.



B.



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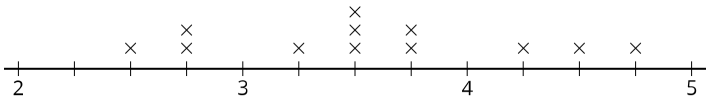
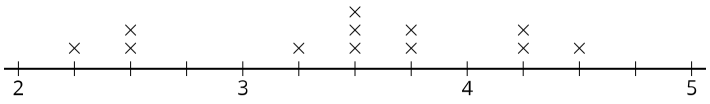


D.



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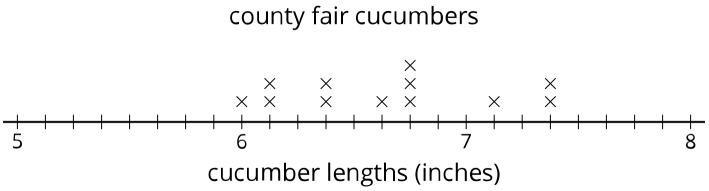
b. What is the combined amount of the strawberries in recipes that use less than $3\frac{1}{2}$ *cups* of strawberries?

(From Unit 6, Lesson 14.)

8. The line plot shows the lengths of a specific type of cucumber entered in a county fair.



a. Blue ribbons are awarded to cucumbers with a length greater than 7 inches. What fraction of the cucumbers at the county fair are awarded blue ribbons?

b. What is the combined length of all the blue-ribbon cucumbers?

c. To enter the state competition, a group such as the county fair entries needs a combined length of 75 inches. Does this group of county fair cucumbers qualify? Explain your reasoning.

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(From Unit 6, Lesson 15.)

9. EXPLORATION

Find possible values that make the equation true.

a. $\frac{\square}{5} + \frac{\square}{\square} = 1\frac{11}{40}$

b. $\frac{3}{\square} - \frac{\square}{\square} = \frac{5}{12}$