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4.NF.A.2 Compare and Order Mixed Numbers - Word Problem

4.NF.A.2 Compare two fractions with different numerators and different denominators

1. Lisa has a ribbon that is $2\frac{3}{5}$ feet long. Ashley's ribbon is $\frac{17}{8}$ feet long. Jenny's ribbon is $3\frac{1}{5}$ feet long. Whose ribbon is the longest? Whose ribbon is the shortest?

Solution:

2. Harold ate $1\frac{1}{3}$ cups of cereal. Jas ate $\frac{8}{5}$ cups. Sam ate $\frac{9}{4}$ cups. Order the amount of cereal in increasing order.

Solution:

3. Joshua used the table on your right to make a kite's string for every color.
   a. Which kite requires the longest string?
   b. Which kite requires the shortest string?
   c. Joshua has a string that is 20 m. If he decides to use 1 kite of each type, does he have enough string to make all kite colors?

Length of String Needed for Colored Kites	
Kite Color	String Length
Orange	$7\frac{5}{8}$ m
Blue	$\frac{19}{2}$ m
Green	$8\frac{1}{5}$ m

Solution:
a.
b.
c.

4. Order the mixed numbers from least to greatest.
   a. $2\frac{1}{7}, \frac{11}{5}, 1\frac{4}{9}$
   b. $5\frac{2}{3}, 7\frac{1}{3}, 4\frac{3}{4}$
   c. $1\frac{1}{9}, 1\frac{6}{7}, \frac{12}{7}$
   d. $3\frac{3}{4}, \frac{18}{7}, \frac{22}{10}$

Solution:
a.
b.
c.
d.

5. Which set of mixed numbers is correctly ordered from least to greatest?
   a. $1\frac{2}{7}, \frac{19}{12}, \frac{24}{15}$
   b. $2\frac{2}{3}, 1\frac{7}{6}, \frac{2}{5}$
   c. $\frac{1}{7}, \frac{11}{3}, 1\frac{4}{5}$
   d. $\frac{23}{6}, 2\frac{1}{2}, 1\frac{8}{9}$

Solution:

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Answer Key

4.NF.A.2 Compare two fractions with different numerators and different denominators

1. Lisa has a ribbon that is $2\frac{3}{5}$ feet long. Ashley's ribbon is $\frac{17}{8}$ feet long. Jenny's ribbon is $3\frac{1}{5}$ feet long. Whose ribbon is the longest? Whose ribbon is the shortest?

Jenny's ribbon is the longest. Ashley's is the shortest.

2. Harold ate $1\frac{1}{3}$ cups of cereal. Jas ate $\frac{8}{5}$ cups. Sam ate $\frac{9}{4}$ cups. Order the amount of cereal in increasing order.

$1\frac{1}{3}, \frac{8}{5}, \frac{9}{4}$

3. Joshua used the table on your right to make a kite's string for every color.
   a. Which kite requires the longest string?
   b. Which kite requires the shortest string?
   c. Joshua has a string that is 20 m. If he decides to use 1 kite of each type, does he have enough string to make all kite colors?

Length of String Needed for Colored Kites	
Kite Color	String Length
Orange	$7\frac{5}{8}$ m
Blue	$\frac{19}{2}$ m
Green	$8\frac{1}{5}$ m

a. Blue
b. Orange
c. No

4. Order the mixed numbers from least to greatest.
   a. $2\frac{1}{7}, \frac{11}{5}, 1\frac{4}{9}$
   b. $5\frac{2}{3}, 7\frac{1}{3}, 4\frac{3}{4}$
   c. $1\frac{1}{9}, 1\frac{6}{7}, \frac{12}{7}$
   d. $3\frac{3}{4}, \frac{18}{7}, \frac{22}{10}$

a. $1\frac{4}{9}, 2\frac{1}{7}, \frac{11}{5}$

b. $4\frac{3}{4}, 5\frac{2}{3}, 7\frac{1}{3}$

c. $1\frac{6}{7}, \frac{12}{7}, 1\frac{1}{9}$

d. $\frac{22}{10}, \frac{18}{7}, 3\frac{3}{4}$

5. Which set of mixed numbers is correctly ordered from least to greatest?
   a. $1\frac{2}{7}, \frac{19}{12}, \frac{24}{15}$
   b. $2\frac{2}{3}, 1\frac{7}{6}, \frac{2}{5}$
   c. $\frac{1}{7}, \frac{11}{3}, 1\frac{4}{5}$
   d. $\frac{23}{6}, 2\frac{1}{2}, 1\frac{8}{9}$

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