Focus:
- All Operations with Fractions

Directions:
- Complete each day’s work
- Show your work or justify your answer.
Week 2 Day 1
1. Look at the model below.

\[ \frac{1}{2} + \frac{1}{3} = \frac{5}{6} \]

The model shows that –
A \( \frac{1}{2} + \frac{1}{3} = \frac{2}{5} \)
B \( \frac{1}{2} + \frac{1}{3} = \frac{5}{6} \)
C \( \frac{1}{2} + \frac{1}{3} = \frac{1}{6} \)
D \( \frac{1}{2} + \frac{1}{3} = \frac{3}{4} \)

2. Winifred has a bottle that contains \( \frac{3}{4} \) quart of water. If she drinks \( \frac{1}{3} \) quart of the water, what fraction of a quart of water will remain in the bottle?

F \( 1 \frac{1}{12} \)
G \( \frac{5}{12} \)
H \( 1 \frac{3}{7} \)
J \( \frac{4}{7} \)

3. Blake’s sandwich is \( \frac{4}{9} \) foot long. Megan’s sandwich is \( \frac{1}{2} \) foot long. In feet, what is the combined length of their sandwiches?

A \( \frac{17}{18} \)
B \( \frac{5}{11} \)
C \( \frac{1}{18} \)
D \( \frac{5}{18} \)

4. Ernesto placed \( 1 \frac{1}{2} \) pounds of birdseed in a feeder. Some birds ate \( \frac{3}{5} \) pound of the seed. How many pounds of seed were left?

F \( \frac{2}{3} \)
G \( \frac{1}{10} \)
H \( \frac{9}{10} \)
J \( \frac{2}{5} \)

1. Mingmei’s brother is \( 1 \frac{4}{10} \) meter tall. Her sister is \( 1 \frac{1}{5} \) meter tall. In meters, what is the difference between their heights?

A \( \frac{1}{5} \)
B \( \frac{3}{5} \)
C \( \frac{3}{10} \)
D \( \frac{2}{5} \)

2. Algernon will read \( \frac{3}{8} \) of his new book this week and \( \frac{2}{4} \) of the book next week. How much of the book will he have read by the end of next week?

F \( \frac{7}{8} \)
G \( \frac{5}{12} \)
H \( \frac{5}{8} \)
J \( \frac{3}{4} \)

3. Elijah will work on math homework for \( 1 \frac{1}{2} \) hours and science homework for \( 1 \frac{3}{4} \) hours. For how many hours will he work on math and science homework?

A \( 2 \frac{1}{4} \)
B \( 2 \frac{3}{4} \)
C \( 3 \frac{1}{4} \)
D \( 3 \frac{3}{4} \)

4. Look at the model below.

The model shows that –
F \( \frac{7}{8} - \frac{1}{2} = \frac{3}{6} \)
G \( \frac{7}{8} - \frac{1}{2} = \frac{5}{8} \)
H \( \frac{7}{8} - \frac{1}{2} = \frac{2}{8} \)
J \( \frac{7}{8} - \frac{1}{2} = \frac{3}{8} \)
Week 2 Day 2
1. Which model shows a way to represent the sum of $\frac{1}{3}$ and $\frac{1}{4}$?

   A. $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$
   B. $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$
   C. $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$
   D. $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$

2. A zoologist measured the lengths of two snakes. The first snake was $1\frac{2}{3}$ yards long and the second snake was $\frac{5}{6}$ yard long. In yards, what was the difference between their lengths?

   F. $\frac{3}{6}$
   G. $\frac{3}{4}$
   H. $\frac{5}{6}$
   J. $\frac{4}{6}$

3. Jason's pencil is $\frac{5}{8}$ foot long. Paxton's pencil is $\frac{2}{3}$ foot long. What fraction of a foot longer is Paxton's pencil than Jason's pencil?

   A. $\frac{1}{24}$
   B. $\frac{1}{12}$
   C. $\frac{3}{5}$
   D. $\frac{1}{8}$

4. Look at the model below.

   A. $\frac{4}{15}$
   B. $\frac{1}{10}$
   C. $\frac{1}{2}$
   D. $\frac{2}{5}$

Amanda poured $3\frac{9}{16}$ pints of water in her dog's bowl and $1\frac{1}{4}$ pints of water in her cat's bowl. How many more pints of water did she pour in her dog's bowl than her cat's bowl?

A. $2\frac{8}{12}$
B. $2\frac{8}{16}$
C. $2\frac{3}{8}$
D. $2\frac{5}{16}$

A principal painted $\frac{1}{10}$ of the wall in the library. The principal's assistant painted $\frac{1}{8}$ of the wall. How much of the wall have they painted combined?

F. $\frac{2}{18}$
G. $\frac{2}{80}$
H. $\frac{3}{20}$
J. $\frac{9}{40}$
Week 2 Day 3
1 Gracie has 3 empty 1-quart containers. She will pour \( \frac{1}{2} \) quart of cereal into each one. Which model represents the total amount of cereal that will be in each container?

A

\[
\begin{array}{c}
3 \\
\frac{1}{2}
\end{array}
\]

B

\[
\begin{array}{c}
3 \\
\frac{1}{2}
\end{array}
\]

C

\[
\begin{array}{c}
3 \\
\frac{1}{2}
\end{array}
\]

D

\[
\begin{array}{c}
3 \\
\frac{1}{2}
\end{array}
\]

2 Mr. Castillo has 7 sacks of the same size. He will fill each sack \( \frac{2}{3} \) of the way to the top with candy. Which model represents the total amount of candy in the 7 sacks?

F

\[
\begin{array}{c}
7 \\
2\frac{2}{3}
\end{array}
\]

G

\[
\begin{array}{c}
7 \\
\frac{1}{3}
\end{array}
\]

H

\[
\begin{array}{c}
7 \\
\frac{2}{3}
\end{array}
\]

J

\[
\begin{array}{c}
7 \\
\frac{1}{3}
\end{array}
\]

3 Justin is going to pour milk into 4 glasses for his siblings. If he pours \( \frac{2}{5} \) pint of milk in each glass, how many pints of milk will he pour?

A 1 \( \frac{1}{5} \)  B 1 \( \frac{5}{8} \)  C 1 \( \frac{3}{5} \)  D 1 \( \frac{1}{2} \)

2 Allison bought 2 ankle weights and 2 wrist weights at a sporting goods store. Each weight weighed \( \frac{7}{8} \) pounds. In pounds, what was the total weight of the ankle and wrist weights?

F \( 4\frac{7}{8} \)  G \( 3\frac{1}{2} \)  H \( 1\frac{3}{4} \)  J \( 3\frac{3}{8} \)

3 Ronan is painting 5 doors in his house. So far he has painted \( \frac{1}{3} \) of each door. Which model represents how much painting Ronan has completed?

A

\[
\begin{array}{c}
5 \\
\frac{1}{3}
\end{array}
\]

B

\[
\begin{array}{c}
5 \\
\frac{1}{5}
\end{array}
\]

C

\[
\begin{array}{c}
3 \\
\frac{1}{3}
\end{array}
\]

D

\[
\begin{array}{c}
5 \\
\frac{1}{3}
\end{array}
\]
Week 2 Day 4
1. Hannah made 8 pints of fruit punch to serve to her guests at her birthday party. Hannah will pour \( \frac{1}{2} \) pint of punch into as many glasses possible. How many glasses can she fill with \( \frac{1}{2} \) pint?
   A 16  B \( \frac{1}{16} \)  C 8  D \( \frac{1}{8} \)

2. Mr. Shore poured \( \frac{1}{3} \) pound of beans on a plate. He will separate the beans into 3 groups of equal weight. What fraction of a pound of beans will be in each group?
   F \( \frac{1}{3} \)  G \( \frac{1}{9} \)  H \( \frac{1}{6} \)  J \( \frac{3}{3} \)

3. Mrs. Medina made two cakes for the students in her art class to share equally. Each student ate one-twelfth of a cake and both of the cakes were eaten. How many students are in Mrs. Medina's art class?
   A 12  B 14  C 24  D 28

4. Serek has one-sixth kilogram of safflower seeds and five bird feeders. If he divides the safflower seeds equally among the five bird feeders, which shows the amount of seeds that will be in the third feeder?
   F \( \frac{1}{6} \) kilogram  H \( \frac{1}{10} \) kilogram
   G \( \frac{1}{18} \) kilogram  J \( \frac{1}{30} \) kilogram

1. Three brothers share one video game system at their home. In total, they are allowed to play games on the system for one-half hour each day. If each brother plays an equal amount of time, which shows the amount of time each brother plays each day?
   A \( \frac{1}{3} \) hour  C \( \frac{1}{4} \) hour
   B \( \frac{1}{6} \) hour  D \( \frac{1}{10} \) hour

2. Jovita has 9 full sheets of rice paper. She can make an origami animal with \( \frac{1}{6} \) sheet. What is the greatest number of origami animals Jovita can make using all of the paper she has?
   F 54  G 15  H \( \frac{1}{54} \)  J \( \frac{1}{15} \)

3. Jeremiah has a piece of licorice that is \( \frac{1}{4} \) foot long. If he cuts it into 2 pieces of equal length, how long will each piece be?
   A \( \frac{1}{2} \) foot  C \( \frac{1}{6} \) foot
   B \( \frac{1}{4} \) foot  D \( \frac{1}{8} \) foot

4. Latoya's goal is to write a short novel that has 6 chapters. If she writes \( \frac{1}{3} \) chapter each month, how long will it take her to reach her goal?
   F 9 months  G 1 year 6 months
   H 1 year 8 months  J 2 years
Week 2 Day 5
1. Warren made 5 pans of brownies. He will slice the brownies into pieces, and each piece will be $\frac{1}{10}$ of the size of a pan. How many slices of brownies will Warren create?
   - A) 10
   - B) 25
   - C) 50
   - D) 100

2. Mariah has $\frac{1}{8}$ ounce of sesame seeds to sprinkle on hamburger buns. She will divide them equally among 4 buns. What fraction of an ounce of seeds will be sprinkled on each bun?
   - F) $\frac{1}{12}$
   - G) $\frac{1}{64}$
   - H) $\frac{1}{32}$
   - J) $\frac{1}{4}$

3. Mr. Huáng bought 2 bottles of maple syrup for his grandchildren to share equally at breakfast tomorrow. If each grandchild uses $\frac{1}{6}$ bottle of syrup on his or her pancakes, and all of the syrup in the bottles is used, how many grandchildren must Mr. Huáng have?
   - A) 8
   - B) 12
   - C) 6
   - D) 18

4. A chef has $\frac{1}{5}$ ounce of cayenne pepper. He will divide the pepper equally among 3 bowls of soup. How much pepper will the chef put in each bowl?
   - F) $\frac{1}{15}$ ounce
   - H) $\frac{3}{5}$ ounce
   - G) $\frac{1}{8}$ ounce
   - J) $\frac{1}{3}$ ounce

1. Gabrielle made 4 cupcakes. Each cupcake weighs $\frac{1}{6}$ pound. If she slices each cupcake into equal fourths, how many slices of cupcake will she produce?
   - A) 16
   - B) $\frac{1}{16}$
   - C) 24
   - D) $\frac{1}{24}$

2. A drawing class on Saturday will last 7 hours. The instructor will split the time into segments that last $\frac{1}{2}$ hour each. A new drawing skill will be taught during each segment. How many drawing skills will be taught in the 7 hours?
   - F) 7
   - G) $3\frac{1}{2}$
   - H) 30
   - J) 14

3. There are 8 students in a reading group. The group will finish reading aloud $\frac{1}{3}$ of a novel by the end of the month. If each member of the group reads aloud an equal amount, how much will each member read by the end of the month?
   - A) $\frac{1}{8}$ novel
   - C) $\frac{1}{24}$ novel
   - B) $\frac{1}{18}$ novel
   - D) $\frac{1}{27}$ novel

4. Timothy has $\frac{1}{2}$ pound of soil. He will split the soil equally among 2 flower pots. How much soil will be in each pot?
   - F) $\frac{1}{8}$ pound
   - H) $\frac{1}{4}$ pound
   - G) $\frac{1}{12}$ pound
   - J) $\frac{1}{6}$ pound