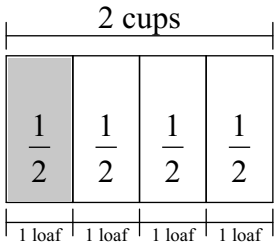
Kuta Software - Infinite Grade 6 Math Name_____

Dividing Fractions - How Many Groups?

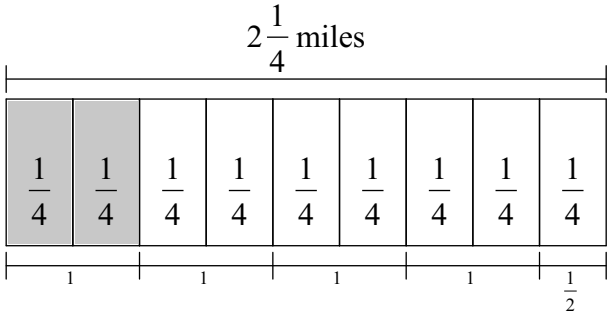
Date_____ Period____

Solve each problem. A tape diagram is provided.

1) Stefan uses 2 cups of flour to make bread. Each loaf requires $\frac{1}{2}$ cup of flour. How many loaves can he make?



2) Jill walked $\frac{1}{2}$ mile on Saturday and $2\frac{1}{4}$ miles on Sunday. How many times as long was Sunday's walk compared with Saturday's walk?

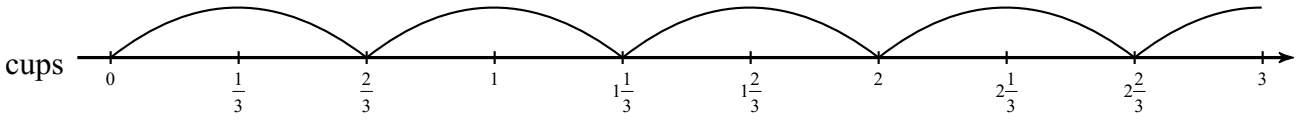


Sketch a tape diagram, and then solve. Express your answer as a mixed fraction.

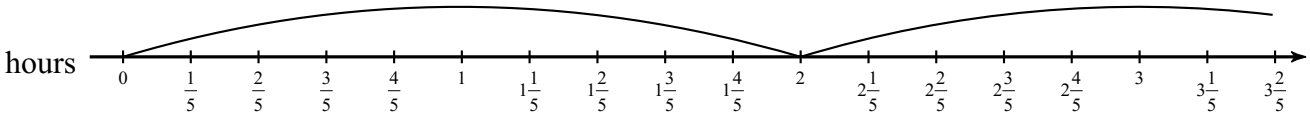
3) Perry ran a total of $1\frac{2}{3}$ miles around a $\frac{2}{9}$ mile trail. How many laps did he run?

Solve each problem. Express your answer as a mixed number. A number line is provided.

4) Perry has some jars that can each hold $\frac{2}{3}$ cup of jam. He has 3 cups of jam. How many jars can he fill?



5) Jasmine studied for 2 hours for a quiz and wasn't satisfied with her grade. For the test, she studied for $3\frac{2}{5}$ hours. How many times as long did she spend studying for the test compared with the quiz?



For each problem, write a multiplication equation and a division equation, and then solve.

6) How many groups of 2 are in 6?

7) How many groups of $\frac{1}{2}$ are in 10?

8) How many groups of $\frac{2}{3}$ are in 2?

9) How many groups of $\frac{3}{4}$ are in $1\frac{1}{8}$?

Solve each problem.

10) $3 \div \frac{1}{4}$

11) $2\frac{2}{3} \div \frac{5}{6}$

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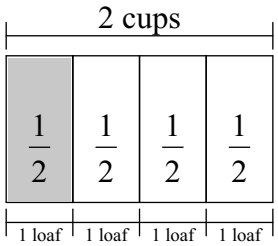
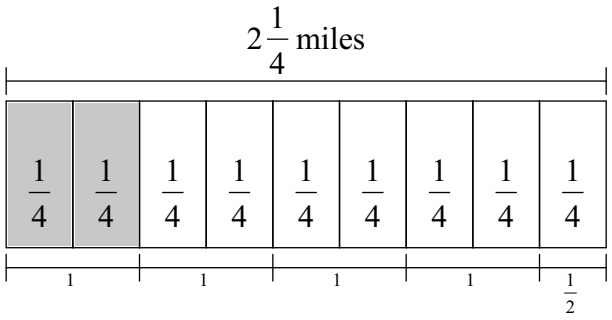
Solve each problem. A tape diagram is provided.

1) Stefan uses 2 cups of flour to make bread. Each loaf requires $\frac{1}{2}$ cup of flour. How many loaves can he make?



4 loaves

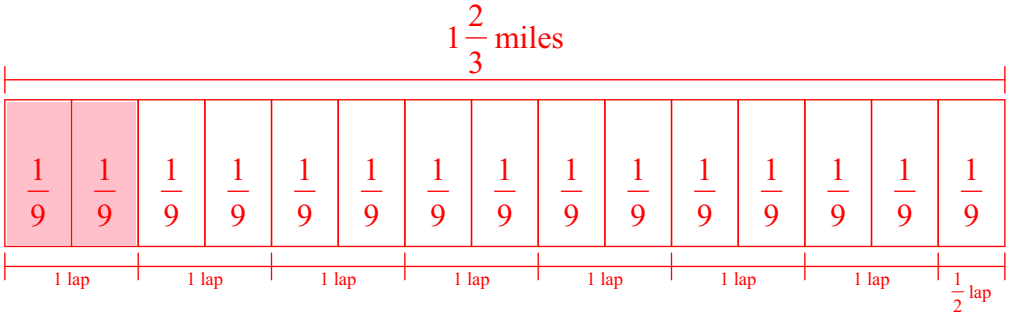
2) Jill walked $\frac{1}{2}$ mile on Saturday and $2\frac{1}{4}$ miles on Sunday. How many times as long was Sunday's walk compared with Saturday's walk?



$4\frac{1}{2}$

Sketch a tape diagram, and then solve. Express your answer as a mixed fraction.

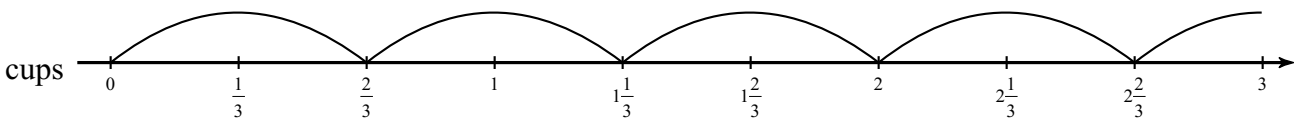
3) Perry ran a total of $1\frac{2}{3}$ miles around a $\frac{2}{9}$ mile trail. How many laps did he run?



$7\frac{1}{2}$ laps

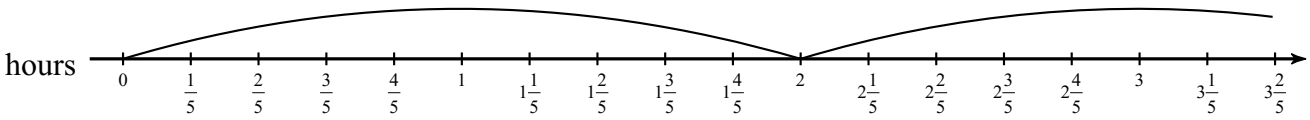
Solve each problem. Express your answer as a mixed number. A number line is provided.

4) Perry has some jars that can each hold $\frac{2}{3}$ cup of jam. He has 3 cups of jam. How many jars can he fill?



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

5) Jasmine studied for 2 hours for a quiz and wasn't satisfied with her grade. For the test, she studied for $3\frac{2}{5}$ hours. How many times as long did she spend studying for the test compared with the quiz?



$1\frac{7}{10}$

For each problem, write a multiplication equation and a division equation, and then solve.

6) How many groups of 2 are in 6?

$? \times 2 = 6$

$6 \div 2 = ?$

3

7) How many groups of $\frac{1}{2}$ are in 10?

$? \times \frac{1}{2} = 10$

$10 \div \frac{1}{2} = ?$

20

8) How many groups of $\frac{2}{3}$ are in 2?

$? \times \frac{2}{3} = 2$

$2 \div \frac{2}{3} = ?$

3

9) How many groups of $\frac{3}{4}$ are in $1\frac{1}{8}$?

$? \times \frac{3}{4} = 1\frac{1}{8}$

$1\frac{1}{8} \div \frac{3}{4} = ?$

$1\frac{1}{2}$

Solve each problem.

10) $3 \div \frac{1}{4}$

12

11) $2\frac{2}{3} \div \frac{5}{6}$

$3\frac{1}{5}$