Name Answer Key Date _____ Period _____

Adding & Subtracting = common Denominators!

Fractions Test Review

DIVIDING = Keep Change Flip!

1. $5\frac{2}{3} \cdot 2\frac{1}{4} =$

$5\frac{8}{12} - 2\frac{3}{12} = \boxed{3\frac{5}{12}}$

3. $2\frac{1}{6} \times 3\frac{3}{5} =$

$\frac{13}{6} \times \frac{18}{5} = \frac{39}{5} = 5\overline{)39}\ R4 = \boxed{7\frac{4}{5}}$

2. $4\frac{1}{5} + \frac{2}{9} =$

$4\frac{9}{45} + \frac{10}{45} = \boxed{4\frac{19}{45}}$

4. $5\frac{2}{9} \div \frac{1}{5} =$

$\frac{47}{9} \div \frac{1}{5}$

K C F

$\frac{47}{9} \times \frac{5}{1} = \frac{235}{9} = 9\overline{)235}\ R1 = \boxed{26\frac{1}{9}}$

5. A spool of ribbon had $25\frac{2}{3}$ yards on it at the start of the day. At the end of the day, an employee noticed that there were only $20\frac{3}{4}$ yards left. How much ribbon was used?

SUBTRACT

$25\frac{2}{3} - 20\frac{3}{4}$

$25\frac{8}{12} - 20\frac{9}{12}$

$24\frac{20}{12} - 20\frac{9}{12} = \boxed{4\frac{11}{12}}$

6. Tara rode her bike $\frac{7}{10}$ of a mile to get to the library. She then rode $1\frac{1}{5}$ mile to go to the grocery store. How far has she ridden total?

ADD

$\frac{7}{10} + 1\frac{1}{5}$

$\frac{7}{10} + 1\frac{2}{10} = \boxed{1\frac{9}{10}}$

7. Mr. Smithson has a favorite cake recipe. It calls for $2\frac{2}{3}$ cup of flour, $\frac{1}{4}$ cup of sugar, and $\frac{5}{8}$ cup of butter. What is the total number of ingredients needed in cups?

ADD

$2\frac{2}{3} + \frac{1}{4} + \frac{5}{8}$

$2\frac{16}{24} + \frac{6}{24} + \frac{15}{24} = 2\frac{37}{24}$

$24\overline{)37}\ R13 = 1\frac{13}{24}$

$2 + 1\frac{13}{24} = \boxed{3\frac{13}{24}}$

Name _____ Date _____ Period _____

multiply **8.** Manuel decides to run on Saturday to train for a race he is running next month. The track he uses is $\frac{2}{3}$ of a mile long. How far would he run if he ran 4 laps around the track?

$\frac{2}{3} \times 4 = \frac{2}{3} \times \frac{4}{1} = \frac{8}{3} = 3\overline{)8}\ 2\frac{2}{3}$ R -6, 2 $= 2\frac{2}{3}$ miles

DIVIDE **9.** A forward on the basketball team ran $6\frac{1}{4}$ miles over a 5-day period. He ran exactly the same distance each day. How far did he run each day?

$6\frac{1}{4} \div 5 = \frac{25}{4} \div \frac{5}{1}$

K C F

$\frac{25}{4} \times \frac{1}{5} = \frac{5}{4} = 4\overline{)5}\ 1\frac{1}{4}$ R -4, 1 $= 1\frac{1}{4}$ per day

SUBTRACT **10.** Mr. Morales had a board that was $9\frac{7}{8}$ feet long. If he cut off a piece that was $3\frac{1}{3}$ feet long for a project he was working on, how many feet would be left over?

$9\frac{7}{8} - 3\frac{1}{3} =$

$9\frac{21}{24} - 3\frac{8}{24} = 6\frac{13}{24}$ feet left over

DIVIDE **11.** Mr. Bateman bought $5\frac{1}{2}$ pounds of chocolate to divide equally among his 8 children. How much chocolate did each child get?

$5\frac{1}{2} \div 8 = \frac{11}{2} \div \frac{8}{1}$

K C F

$\frac{11}{2} \times \frac{1}{8} = \frac{11}{16}$ pounds per kid

multiply **12.** When Micah tries out for the cross-country team, he has to run 12 laps to make the team. Each lap is $\frac{2}{3}$ of a mile. How far does Micah have to run?

$12 \times \frac{2}{3}$

$\frac{12}{1} \times \frac{2}{3} = \frac{8}{1} = 8$ miles

Remember:

+ & −

- you must have common denominators!
- a common Ⓓ can always be found by multiplying both Ⓓ, but there may be a more simple # to use

×

- Improper fractions first!
- cross simplify if possible (you don't have to, it will just make it easier)
- make sure your answer is in simplest form (change to mixed # if necessary)

÷

- Improper FIRST!
- Keep, Change, Flip
- Cross simplify AFTER you have done KCF
- make sure answer is in simplest form!

Word Problems-

* If you are unsure of what operation you should use, try making a simpler problem with whole #'s and estimate your answer first.
* Always make sure your answer is reasonable and makes sense!