Name: Key Period: _____

Rational Round-up Mixed Review

1. About $\frac{1}{5}$ of the world's population lives in China and $\frac{1}{6}$ of the world's population lives in India. What fraction of the world's population lives in other countries?

$1 - (\frac{1}{5} + \frac{1}{6}) =$

$1 - \frac{11}{30} =$ $\frac{19}{30}$ live in other countries

$\frac{1}{5} \quad \frac{6}{30}$

$+\frac{1}{6} \quad \frac{5}{30}$

$\frac{11}{30}$

$\times \frac{30}{30}$

$-\frac{11}{30}$

$\frac{19}{30}$

2. The lap length of Watkins Glen auto racing track is 2.45 miles. The lap length of Bristol is 0.5 of a mile. How many times longer is a lap at Watkins Glen than at Bristol?

$2.45 \div 0.5 =$

4.9 times longer

$0.5\overline{)2.45}$ → 4.9

-20

45

-45

0

3. A recipe calls for $2\frac{1}{4}$ cups of flour. How much flour would you need to make $\frac{1}{3}$ of the recipe?

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

$\frac{9}{4} \times \frac{1}{3} =$ $\frac{3}{4}$ cup of flour

4. From the START, you move 10 spaces forward around the game board. On the next turn, you move 4 spaces backward. How far from START are you now?

$10 + -4 =$ 6 spaces from start

5. Shawna wants to store CD's on a shelf that is $16\frac{2}{3}$ inches wide. If each CD is $\frac{1}{3}$ of an inch wide, how many CD's can be stored on the shelf?

$16\frac{2}{3} \div \frac{1}{3} =$

$\frac{50}{3} \times \frac{3}{1} =$ 50 CDs fit

6. Mr. Frederick bought five ceiling fans to install in his home. What is the cost of each fan if the total was $608.55?

$608.55 \div 5 =$

121.71/fan

$5\overline{)608.55}$ → 121.71

-5

10

-10

8

-5

35

7. A hiker averages 6.375 km per hour. If he hikes for 5.3 hours, how many kilometers did he hike?

$6.375 \times 5.3 =$

33.7875 km

6.375
5.3
19125
31875
33.7875

8. If you have $216 and you spend $12 each day, how long would it be until you had no money left?

$216 \div 12 =$

18 days

18
12|216
−12
96
96
0

9. David mowed 0.3 of the yard while his brother mowed 0.25 of it. What fraction of the yard still needs to be mowed?

$\frac{3}{10} + \frac{1}{4} =$

$\frac{6}{20} + \frac{5}{20} = \frac{11}{20}$

$1 - \frac{11}{20} =$ $\frac{9}{20}$ still to mow

10. Mrs. Lau rolls out 2.75 feet of dough to make noodles. If the noodles are 0.375 of an inch wide, how many noodles will she make? (3/8)

2.75
× 12
550
275
33.00

2.75 feet × 12 = 33 inches

$33 \div 0.375 =$

$33 \div \frac{3}{8} =$

$33 \times \frac{8}{3} = 88$

88 noodles

11. A farmer has 6.5 acres of land for growing crops. If she plants cord on $\frac{3}{5}$ of the land, how many acres of corn will she have?

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

$\frac{3}{5} \times \frac{13}{2} = \frac{39}{10} =$ 39/10 acres of corn

12. During an six hour period, the temperature dropped 18 degrees F. Find the average hourly change in temperature.

$-18 \div 6 = -3°$ drop of 3° per hour

13. The ceiling in a storage unit is $5\frac{5}{8}$ m high. How many boxes can be stacked in a single stack of each box is $\frac{3}{4}$ m tall?

$5\frac{5}{8} \div \frac{3}{4} =$

$\frac{45}{8_2}^{15} \times \frac{4}{3} = 15/2 = 7\frac{1}{2}$ 7 boxes