$\qquad$ Date $\qquad$ Pd $\qquad$

### 7.6 Proportions \& Problem Solving with Rational Equations DAY TWO CYU

| $\square$ Use when you get it right all by yourself <br> SUse when you did it all by yourself, but made a silly mistake HUse when you could do it alone with a little help from teacher or peer <br> $\boldsymbol{G}$ Use when you completed the problem in a group <br> $X$ Use when a question was attempted but wrong (get help) <br> $N$ Use when a question was not even attempted |  |  |  |
| :---: | :---: | :---: | :---: |
| CONCEPTS | BASIC | INTERMEDIATE | ADVANCED |
| Converting words to equations | 5, 6, 9, 10 | 1-4 | 7, 8 |
| Vocabulary terms | 5, 6, 9, 10 | 1-4 | 7,8 |
| Solving Literal Equations (spiral review) | 11 |  |  |

Solve the following. Show the set up and then the work to earn full credit for the answer. 1. Three times the reciprocal of a number equals nine times the reciprocal of six. Find the number.
2. Twelve divided by the sum of $x$ and two equals the quotient of four and the difference of $x$ and two.
3. If twice a number added to three is divided by the number plus one, the result is three halves. Find the number.
4. A number added to the product of six and the reciprocal of the number equals negative five. Find the number.
5. One fourth equals the quotient of a number and eight. Find the number.
6. Four times a number added to five is divided by six. The result is seven-halves. Find the number.
7. Two divided by the difference of a number and three minus four divided by the number plus three, equals eight times the reciprocal of the difference of the number squared and nine. What is the number?
8. If fifteen times the reciprocal of a number is added to the ratio of nine times the number minus seven and the number plus two, the result is nine. What is the number?
9. The quotient of a number and three, minus one, equals five-thirds. Find the number.
10. The quotient of a number and five, minus one, equals seven- fifths. Find the number.
11. Solve $\mathrm{D}=\mathrm{RT}$ for ...
a) for $R$.
b) for $T$.

CYU Reflection: How far can you go: basic, intermediate, or advanced?

## Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.


