Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_ Period: \_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.4e B NOTES – Two Digits Repeating Decimals**

*CCSS: 8.NS.1. Objective: Students can convert a repeating decimal to a fraction by writing and solving equations.*

*HW: Start on CH 7 Practice Test (#1-10).*

*Video:* [*https://www.youtube.com/watch?v=tv2nz9PIZjY*](https://www.youtube.com/watch?v=tv2nz9PIZjY)*;* [*https://www.youtube.com/watch?v=84MiV7Kf1Fg*](https://www.youtube.com/watch?v=84MiV7Kf1Fg)

|  |
| --- |
| **WARM-UP**  You and your friend are standing back-to-back. Your friend runs 15 feet forward, and then 8 feet right. At the same time, you run 12 feet forward, and then run 5 feet to the right. You stop and throw a football to your friend, who catches it. How far did you throw the football? |

**EXAMPLES**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Write as a mixed number.   Multiply both sides by 10n   |  |  | | --- | --- | | # of decimals,  *n* | 10n | |  |  | |  |  | |  |  | | 1. Write as a fraction in simplest form. |

**BACK 🡪**

**ON YOUR OWN**

|  |  |
| --- | --- |
| 1. Write as a fraction in simplest form | 1. Write as a fraction in simplest form. |
| 1. Write as a fraction in simplest form | 1. Write as a fraction in simplest form |

*Solutions: 1) 2) 3) 4)*