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 $1.\overbar{25}$ as a mixed number.

Multiply both sides by 10n

|  |  |
| --- | --- |
| # of decimals,*n* | 10n |
|  |  |
|  |  |
|  |  |

 | 1. Write $-0.2\overbar{3}$ as a fraction in simplest form.
 |

**BACK 🡪**

**ON YOUR OWN**

|  |  |
| --- | --- |
| 1. Write $-3.\overbar{81}$ as a fraction in simplest form
 | 1. Write $0.7\overbar{5}$ as a fraction in simplest form.
 |
| 1. Write $0.\overbar{27}$ as a fraction in simplest form
 | 1. Write $2.0\overbar{6}$ as a fraction in simplest form
 |

*Solutions: 1)* $-\frac{42}{11} or-3\frac{9}{11}$ *2)* $\frac{34}{45}$ *3)* $\frac{3}{11}$ *4)* $\frac{31}{15} or 2\frac{1}{15}$