## **EXTRA PRACTICE - Exercises**

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## Unit I – The Structure of Mathematics Part B – Further Investigation of Number Symbols Lesson 4 – Changing Decimal Forms to Fraction Forms

Find a fraction equivalent to each of the following terminating decimal numbers.

| 1. | .05    | 2.  | 8.026   |
|----|--------|-----|---------|
| 3. | 1.040  | 4.  | .120462 |
| 5. | 6.09   | 6.  | .49     |
| 7. | 20.642 | 8.  | .421    |
| 9. | .0045  | 10. | .0028   |

Find a fraction equivalent to each of the following repeating decimal numbers.

| 11. | .5416    | 1238        |
|-----|----------|-------------|
| 13. | . 571428 | 14 36       |
| 15. | . 52     | 1639        |
| 17. | .916     | 1836        |
| 19. | . 241    | 20. 11.1234 |

## EXTRA PRACTICE — Answer Key

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## Unit I – The Structure of Mathematics Part B – Further Investigation of Number Symbols Lesson 4 – Changing Decimal Forms to Fraction Forms

Find a fraction equivalent to each of the following terminating decimal numbers.

1. .05 is read "five hundredths", which can be written  $\frac{5}{100}$ :  $\frac{5}{100} = \frac{5 \cdot 1}{5 \cdot 20} = \frac{1}{20}$ 2. 8.026 is read "eight and twenty-six thousandths," which can be written  $8\frac{26}{1000}$ :  $8\frac{26}{1000} = 8\frac{2 \cdot 13}{2 \cdot 500} = 8\frac{13}{500}$ 3. 1.040 is read "one and forty thousandths," which can be written  $1\frac{40}{1000}$ :  $1\frac{40}{1000} = 1\frac{1 \cdot 40}{25 \cdot 40} = 1\frac{1}{25}$ 4. .120462 is read "one hundred twenty thousand four hundred sixty-two millionths," which can be written

 $\frac{120462}{1,000,000}: \quad \frac{120462}{1,000,000} = \frac{60231 \cdot 2}{500,000 \cdot 2} = \frac{60231}{500,000}$ 

5. 6.09 is read "six and nine hundredths," which can be written  $6\frac{9}{100}$ 

6..49 is read "forty-nine hundredths," which can be written  $\frac{49}{100}$ 

7. 20.642 is read "twenty and six hundred forty-two thousandths," which can be written

$$20\frac{642}{1000}: \quad 20\frac{642}{1000} = 20\frac{2 \cdot 321}{2 \cdot 500} = 20\frac{321}{500}$$

8. .421 is read "four hundred twenty-one thousandths," which can be written  $\frac{421}{1000}$ 9. .0045 is read "forty-five ten-thousandths," which can be written  $\frac{45}{10,000}$ :  $\frac{45}{10,000} = \frac{5 \cdot 9}{5 \cdot 2000} = \frac{9}{2000}$ 10. .0028 is read "twenty-eight ten-thousandths," which can be written  $\frac{28}{10,000}$ :  $\frac{28}{10,000} = \frac{2 \cdot 2 \cdot 7}{2 \cdot 2 \cdot 2500} = \frac{7}{2500}$ 

Find a fraction equivalent to each of the following repeating decimal numbers.

| 11. | $\frac{39}{72}$      | 12. | $\frac{7}{18}$  | 13. | $\frac{4}{7}$      |
|-----|----------------------|-----|-----------------|-----|--------------------|
| 14. | $\frac{4}{11}$       | 15. | $\frac{52}{99}$ | 16. | $\frac{13}{33}$    |
| 17. | $\frac{11}{12}$      | 18. | $\frac{11}{30}$ | 19. | $\frac{3238}{999}$ |
| 20. | $\frac{12347}{1110}$ |     |                 |     |                    |