## EXTRA PRACTICE - Exercises

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## Unit I - The Structure of Mathematics <br> Part B - Further Investigation of Number Symbols <br> 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. . $541 \overline{6}$
12. . $3 \overline{8}$
13..$\overline{571428}$
15. . $\overline{52}$
14..$\overline{36}$
16. $\overline{39}$
17. . $91 \overline{6}$
19..$\overline{241}$
20. $11.1 \overline{234}$

## 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

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

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

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

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. $\frac{12347}{1110}$

