

MODULE C
Topic: Place Value, Fractions and Decimals, Rounding

Fill in the missing entries in the table:

Decimal	Decimal in WORDS	Equivalent Fraction (simplified)
1. 102.05		
2. 3.702		
3. 9.3		
4. 0.0006		
5.		$\frac{3}{4}$
6.		$1\frac{7}{8}$
7.		$10\frac{9}{25}$

(see back for rounding practice)

8. Round 18.637 to the nearest tenth.
9. Round 18.637 to the nearest ten.
10. Round 187.492 to the nearest whole number (nearest one).
11. Round 771.538 to the nearest hundredth.
12. Round 771.538 to the nearest hundred.
13. Round 771.538 to the nearest thousandth.
14. Round 771.538 to the nearest thousand.
15. Round 1070.605 to the nearest ten.
16. Round 1837.0381 to the nearest hundredth.

MODULE C
Topic: Operations with Decimals

Evaluate each of the following. For long division problems, if the decimal does not terminate, round to the nearest thousandth.

1. $1.4 + 13.071 + 0.22$

2. $4.27 - 0.9$

3. $102.63 + 18.4 - 12.38$

4. $(1.2)(6.23)$

5. $(0.03)^2$

6. $19.08 \div 0.5$

7. $1.065 \div 2.5$

8. $5.2 + (0.3)(9.8)$

9. Divide 0.032 by 0.08
1

10. $40 \div 7.2$

11. $13.86 \div 3.61$

Find the following products or quotients **WITHOUT** writing out all the multiplication or division steps.

12. $(0.245)(100)$

13. $0.245 \div 10$

14. $(16.3)(1000)$

15. $\frac{1.487}{100}$

16. $8.36 \times 10,000$

17. $8.36 \div 1000$

MODULE C

Topic: Fractions and Decimals Together

Evaluate the following by converting all numbers to fractions. Follow the order of operations. Final answers should be fractions.

1. $\frac{3}{4} + \frac{1}{2}(0.4)$

2. $\frac{1}{3}(0.75)^2 - \frac{2}{5}(0.08)$

3. $\left(\frac{1}{8}\right)\left(\frac{1}{2} - 0.1\right)$

Evaluate the following by converting all numbers to decimals. Follow the order of operations. Final answers should be fractions.

4. $\frac{9}{10} + (1.41)\left(\frac{5}{2}\right)$

5. $\frac{3}{8} \times 0.01$

6. $\frac{3}{10} + \frac{1}{4}(1.2 - 0.4)$

MODULE C
CUMULATIVE REVIEW

1. What is the place value of the digit 5 in the number 2.03512?
2. Add $9.679 + 3.49 + 6.5$
3. Subtract $7.5 - 3.04$
4. Multiply $(963.8)(0.24)$
5. Divide 0.4553 by 1.3. Round to the nearest hundredth.
6. Write $\frac{5}{11}$ as a decimal.
7. Write $\frac{4}{25}$ as a decimal.
8. Write 0.35 as a fraction. (Always simplify.)
9. Write 3.14 as a mixed number.

Evaluate the following.

10. $9.7 - 5.2 - 0.14$
11. $8.3 - 1.2 + 3.4$
12. $4.09 + 0.5(6 + 0.02)$
13. $3.6 + 15(2.1)^2$
14. $8\left(\frac{4}{5}\right)(0.03)$
15. $\left(\frac{1}{2}\right)(0.27) + \left(\frac{3}{5}\right)^2$
16. Write in order from least to greatest:
0.002, 0.2, 0.02, 0.021, 0.019, 0.196
17. Divide 12.4 by 0.32