

KEY

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	One hundred two and five hundredths	$102\frac{1}{20}$
2. 3.702	Three and seven hundred two thousandths	$3\frac{351}{500}$
3. 9.3	Nine and three tenths	$9\frac{3}{10}$
4. 0.0006	Six ten-thousandths	$\frac{3}{5000}$
5. 0.75	Seventy-five hundredths	$\frac{3}{4}$
6. 1.875	One and eight hundred seventy-five thousandths	$1\frac{7}{8}$
7. 10.36	Ten and thirty-six hundredths	$10\frac{9}{25}$

(see back for rounding practice)

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8. Round 18.637 to the nearest tenth. 18.6
9. Round 18.637 to the nearest ten. 20
10. Round 187.492 to the nearest whole number (nearest one). 187
11. Round 771.538 to the nearest hundredth. 771.54
12. Round 771.538 to the nearest hundred. 800
13. Round 771.538 to the nearest thousandth. 771.538
14. Round 771.538 to the nearest thousand. 1000
15. Round 1070.605 to the nearest ten. 1070
16. Round 1837.0381 to the nearest hundredth. 1837.04

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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. $1.4 + 13.071 + 0.22$

14.691

2. $4.27 - 0.9$

3.37

3. $102.63 + 18.4 - 12.38$

108.65

4. $(1.2)(6.23)$

7.476

5. $(0.03)^2$

0.0009

6. $19.08 \div 0.5$

38.16

7. $1.065 \div 2.5$

0.426

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

8.14

9. Divide 0.032 by 0.08

0.4

10. $40 \div 7.2$

5.556

11. $13.86 \div 3.61$

3.839

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

12. $(0.245)(100)$

24.5

13. $0.245 \div 10$

0.0245

14. $(16.3)(1000)$

16,300

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

0.01487

16. $8.36 \times 10,000$

83,600

17. $8.36 \div 1000$

0.00836

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

$$\boxed{\frac{19}{20}}$$

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

$$\boxed{\frac{311}{2000}}$$

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

$$\boxed{\frac{1}{20}}$$

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

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

$$\boxed{4.425}$$

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

$$\boxed{0.00375}$$

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

$$\boxed{0.5}$$

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MODULE C CUMULATIVE REVIEW

1. What is the place value of the digit 5 in the number 2.03512?

Thousandths

2. Add $9.679 + 3.49 + 6.5$

19.669

3. Subtract $7.5 - 3.04$

4.46

4. Multiply $(963.8)(0.24)$

231.312

5. Divide 0.4553 by 1.3. Round to the nearest hundredth.

0.35

6. Write $\frac{5}{11}$ as a decimal.

$0.\overline{45}$

7. Write $\frac{4}{25}$ as a decimal.

0.16

8. Write 0.35 as a fraction. (Always simplify.)

$\frac{7}{20}$

9. Write 3.14 as a mixed number.

$3\frac{7}{50}$

Evaluate the following.

10. $9.7 - 5.2 - 0.14$

4.36

11. $8.3 - 1.2 + 3.4$

10.5

12. $4.09 + 0.5(6 + 0.02)$

7.1

13. $3.6 + 15(2.1)^2$

69.75

14. $8\left(\frac{4}{5}\right)(0.03)$

0.192 or $\frac{24}{125}$

15. $\left(\frac{1}{2}\right)(0.27) + \left(\frac{3}{5}\right)^2$

0.495 or $\frac{99}{200}$

16. Write in order from least to greatest:
0.002, 0.2, 0.02, 0.021, 0.019, 0.196

0.002, 0.019, 0.02, 0.021, 0.196, 0.2

17. Divide 12.4 by 0.32

38.75