3.5 Order, Exponents, and the Order of Operations
 3.5 Exercise Set, page 220: 1, 3, 7, 15, 19, 25, 49, 51, 53

3.6 Fractions and Problem Solving
 3.6 Exercise Set, page 227: 1, 5, 11, 13, 21, 33

Chapter 4 - Decimals
4.1 Decimals
 4.1 Exercise Set, page 253: 1, 7, 11, 19, 23, 25

Exam 2   Wednesday, 03/11/26
3.1 - 3.6, 4.1

3.6: 33

33. The Apple Watch Series Two measures approximately $1\frac{2}{3}$ inches by $1\frac{2}{5}$ inches by $\frac{9}{20}$ inches. Find the volume of the watch. (*Source:* Apple, Inc.)

$$\text{Let } V = \text{volume of watch}$$
$$= (\text{length})(\text{width})(\text{thickness})$$
$$= \left(1\frac{2}{3} \text{ in}\right)\left(1\frac{2}{5} \text{ in}\right)\left(\frac{9}{20} \text{ in}\right)$$
$$= \left(\frac{5}{3}\right)\left(\frac{7}{5}\right)\left(\frac{9}{20}\right) \text{ in}^3$$
$$= \left(\frac{21}{20} \text{ in}^3\right)$$

$1\frac{1}{20}$

$$\frac{21}{20} = \frac{20}{20} + \frac{1}{20}$$

$$= \boxed{1\frac{1}{20}} \ in^3$$

$$20\overline{)21} \quad 1\frac{1}{20}$$
$$\underline{20}$$
$$1$$
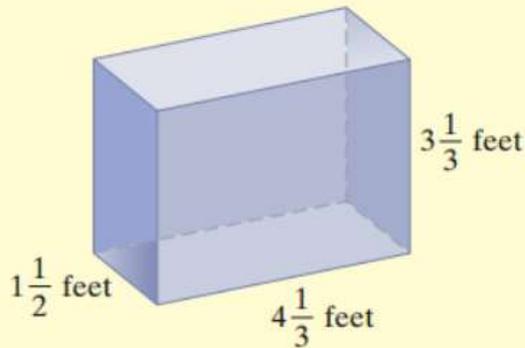
$$\text{volume} = \left(1\frac{1}{2}\right)\left(4\frac{1}{3}\right)\left(3\frac{1}{3}\right) ft^3$$

$$= \left(\frac{3}{2}\right)\left(\frac{13}{3}\right)\left(\frac{10}{3}\right) ft^3$$

$$(13)(5) \quad ft^3$$

$$= \frac{(13)(5)}{3} \text{ ft}^3$$

$$= \frac{65}{3} \text{ ft}^3$$

$$= \boxed{21 \tfrac{2}{3} \text{ ft}^3}$$

$$
\begin{array}{r}
21\ \tfrac{2}{3} \\
3\overline{\smash{)}65} \\
6 \\
5 \\
3 \\
2
\end{array}
$$

4.1

Memorize

Millions	Hundred-thousands	Ten-thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundred-thousandths	Millionths
1,000,000	100,000	10,000	1000	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	$\frac{1}{10,000}$	$\frac{1}{100,000}$	$\frac{1}{1,000,000}$

1 7 . 7 5 8

$$1 \times 10$$
$$+\ 7 \times 1$$
$$+\ 7 \times \tfrac{1}{10}$$
$$+\ 5 \times \tfrac{1}{100}$$
$$+\ 8 \times \tfrac{1}{1000}$$

Practice 10–12

Write each decimal as a fraction or mixed number. Write your answer in simplest form.

10. 0.12 $\quad = \dfrac{12}{100} = \dfrac{6}{50} = \boxed{\dfrac{3}{25}}$

11. 57.8 $\quad = 57\dfrac{8}{10} = \boxed{57\dfrac{4}{5}}$

12. 209.986

$= 209\dfrac{986}{1000}$

$= \boxed{209\dfrac{493}{500}}$

$\begin{array}{r} 246 \\ 4\overline{)986} \\ 8 \\ \hline 18 \\ 16 \\ \hline 26 \\ 24 \\ \hline 2 \end{array}$

$\begin{array}{r} 493 \\ 2\overline{)986} \\ 8 \\ \hline 18 \\ 18 \\ \hline 6 \end{array}$

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CASIO        ClassPad Mana
  ▼ Edit Action Interactive ⊠
 0.5 | ►  dx  w  ►  ~  ▼      ≫
493/500
                    0.986
493/500
                     493
                     500
```
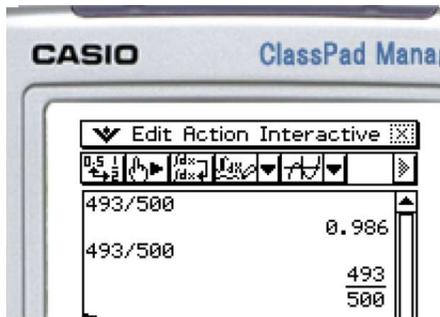
Write each decimal number in words.

167.009   One hundred sixty-seven and nine thousandths