UNIT 2: REAL NUMBERS REVIEW
Label each number as a whole number, an integer, or rational. Then put in order from least to greatest.
(Section 2.1)5.2


$$
-3 \cdot \overline{3}
$$

2. $-3,-\frac{10}{3},-3.25,-3 \frac{2}{5}-3 \frac{2}{5},-\frac{10}{3},-3.25,-3$

- $3=$ integer, rational
$-\frac{10}{3}=$ rational
$-3.25=$ rational
$-3 \frac{2}{5}=$ rational

Perform the indicated operation. (Sections 2.2 and 2.3)
(If you start with a fraction, end with a fraction. If you start with a decimal, end with a decimal)
Round to the nearest hundredth!



Simplify each expression. (Section 2.4)


Application - Area and Perimeter, Domain and Range, Graph, Recipe
21. Find the area and perimeter of the rectangle. $p=$ add up all the sides $A=l w$


Perimeter $=3.5+6+3.5+6=19 \mathrm{~m}$
Ara $=3.5(6)=21 \mathrm{~m}^{2}$

$$
p=\text { add up all the sides } A=\frac{1}{2} b h
$$

$$
\frac{3}{4} \mathrm{~cm}
$$

Perimeter $=\frac{3}{4}+\frac{3}{4}+\frac{3}{4}=\frac{9}{4} \mathrm{~cm}$

$$
\text { Area }=\frac{1}{2}\left(\frac{3}{4}\right)\left(\frac{5}{4}\right)=\frac{15}{32}
$$

23. Given the set of numbers in the domain below, use the function to find the range.

Domain $\left\{-2.5,-\frac{3}{4}, 0,4\right\}$
Range $\left\{-1, \frac{5}{2}, 4,12\right\}$
Function $\quad y=4+2 x$
$y=4+2 x$
$y=4+2(-2.5)$
$4-5$
-1

$$
\begin{gathered}
y=4+2 x \\
y=4+2\left(-\frac{3}{4}\right) \\
4-\frac{6}{4} \\
\frac{16}{4}-\frac{6}{4}=\frac{10}{4}=\frac{5}{2}
\end{gathered}
$$

$y=4+2 x$
$y=4+2(0)$
$4+0$
4

$$
\begin{gathered}
y=4+2 x \\
y=4+2(4) \\
4+8 \\
12
\end{gathered}
$$

24. Bob records his weight change for a month What is his total change?
$4.5-3-2+3=2.5$ pounds

25. Mr. Kelly is reading Martha Stewart's Living magazine one day. He comes across a delicious recipe for refreshing strawberry lemonade. Mr. Kelly only wants to make half the recipe. Change the recipe so that it makes a half of batch of lemonade.


Divide by 2 or mulitply by one half!

$$
\frac{1}{2} \text { or } 0.5
$$

