## Learning Plan 1

## Chapter 1



## Question 15

Use the front end rounding to estimate the answer. Then find the actual product. $58.73 \times 6.5$
Solution:

The front end rounding requires the first digit to be rounded and all the following digits to be changed to zero.
Round 58.73 to 60 .
Round 6.5 to 7 .
$60 \times 7=420$
The actual product:
$58.73 \times 6.5=381.745$

## Question 16

Find the total cost of ordering six long-sleeve, solid-color shirts and three short-sleeve, striped shirts, all size XXL and all shipped to the home.

| Shirt Ordering Information | Total Price of all items <br> (Excluding Monograms and Gift <br> Boxes) | Shipping, <br> Packing, and <br> Handling |  |
| :--- | :--- | :--- | :---: |
| Short sleeve, solid colors | $\$ 11.25$ each | $\$ 0-25.00$ | $\$ 4.00$ |
| Short sleeve, stripes | $\$ 16.75$ each | $\$ 25.01-\$ 65.00$ | $\$ 5.85$ |
| Long Sleeve, solid colors | $\$ 8.95$ | $\$ 65.01-\$ 125.00$ | $\$ 7.95$ |
| Long sleeve, stripes | $\$ 21.95$ each | $\$ 125+$ | $\$ 9.95$ |
|  | Shipping to each additional address add \$4.25 |  |  |
| Monogram, $\$ 4.95$ each |  |  |  |
| Gift box, $\$ 6$ each. |  |  |  |

## Solution:

The information we need from the left side table is:
Long Sleeve, solid colors \$8.95
Short sleeve, stripes \$16.75 each
XXL size, add \$2 per shirt
We need XXL size, so each shirt will increase in price by $\$ 2$.

$$
8.95+2=10.95
$$

$16.75+2=\$ 18.75$

The cost of six Long Sleeve, solid colors is:

$$
6 \cdot 10.95=\$ 65.7
$$

The cost of three Short sleeve, stripes is:

$$
3 \cdot 18.75=\$ 56.25
$$

The total cost of all the items is:

$$
\$ 65.7+\$ 56.25=\$ 121.95
$$

From the right side table the shipping price will be $\$ 7.95$.
Add the sipping price to the total cost:

$$
121.95+7.95=\$ 129.90
$$

## Question 17

Find the gross pay of an employee working 31.9 hours at a rate of $\$ 13.45$ per hour and 7.23 hours at a rate of $\$ 14.29$ per hour. Round to the nearest cent as needed.

Solution

$$
\begin{aligned}
31.9 \cdot 13.45+7.23 \cdot 14.29 & =532.3717 \\
& \approx 532.37
\end{aligned}
$$

Rounding to the nearest cent is the same as rounding to the nearest hundredth.

## Question 18

Write the decimal in words.

$$
4.61
$$

Solution
Four and sixty-one hundredths.

## Question 19

Round 4.2763 to the nearest hundredth.

Solution
4.2763 rounded to the nearest hundredth is 4.28

