Assignment 1 – Pizza Party

Given the number of people attending a pizza party, output the number of people, number of pizzas needed, and the total cost for the number of pizzas. For the calculation, assume that people eat 2 slices on average and each pizza has 12 slices and costs $14.95.

Output each floating-point value with two digits after the decimal point using the following statement once before all other "cout" statements:

In [ ]:
```
cout << fixed << setprecision(2);
```

Ex: If the input is:

In [ ]:
```
20
```

the output is:

In [ ]:
```
People: 20
Pizza(s) needed: 4
Cost for 4 pizza(s): $59.80
```

Hint: Use the ceil() function to round up the number of pizzas so that enough pizzas are ordered.

In [ ]:
```
#![](pizza_party_skeleton.png)
```

LAB ACTIVITY | 19.6.1: LAB: Pizza party

main.cpp

```
#include <iostream>
#include <iomanip>
#include <cmath>
using namespace std;

int main() {
   int people;
   int numPizzas;
   double cost;

   /* Type your code here. */

   return 0;
}
```

Tests

This automated test bench has 5 tests for a total of 10 points.

---

1. Compare output (2 points)

When input is

```
20
```

Standard output exactly matches

```
People: 20
Pizza(s) needed: 4
Cost for 4 pizza(s): $59.80
```

2. Compare output (2 points)

When input is

```
7
```

Standard output exactly matches

```
People: 7
Pizza(s) needed: 2
Cost for 2 pizza(s): $29.90
```

3. Compare output (2 points)

When input is

```
60
```

Standard output exactly matches

```
People: 60
Pizza(s) needed: 10
Cost for 10 pizza(s): $149.50
```

4. Compare output (2 points)

When input is

```
0
```

Standard output exactly matches

```
People: 0
Pizza(s) needed: 0
Cost for 0 pizza(s): $0.00
```

5. Compare output (2 points)

When input is

```
4
```

Standard output exactly matches

```
People: 4
Pizza(s) needed: 1
Cost for 1 pizza(s): $14.95
```

Submissions

1 - Name your C++ file FirstName_Lastname.cpp.

2 - Prepare your report in docx or pdf format and name it Firstname_Lastname.docx or Firstname_Lastname.pdf

Note: Each student should submit these two sepearte files.

3 - Add the screenshot of your code to the report. All five tests should be performed and the result screenshot be included in the report.

Note: Make sure to have your report containing both explanatnations and screenshots.