

2.12 Exercises

Exercise 2.2. Assume that we execute the following assignment statements:

```
width = 17
height = 12.0
delimiter = '.'
```

For each of the following expressions, write the value of the expression and the type (of the value of the expression).

1. $\text{width}/2 = 8.5$
2. $\text{width}/2.0 = 8.5$
3. $\text{height}/3 = 4.0$
4. $1 + 2 * 5 = 11$
5. $\text{delimiter} * 5 = \dots$

Use the Python interpreter to check your answers.

Exercise 2.3. Practice using the Python interpreter as a calculator:

1. The volume of a sphere with radius r is $\frac{4}{3}\pi r^3$. What is the volume of a sphere with radius 5?
Hint: 392.7 is wrong!
2. Suppose the cover price of a book is \$24.95, but bookstores get a 40% discount. Shipping costs \$3 for the first copy and 75 cents for each additional copy. What is the total wholesale cost for 60 copies?
3. If I leave my house at 6:52 am and run 1 mile at an easy pace (8:15 per mile), then 3 miles at tempo (7:12 per mile) and 1 mile at easy pace again, what time do I get home for breakfast?

1. \$23.81
2. 945.45
3. 7:30:06 am