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Lesson Topic: Data types/variables

Aim: How do we use **concatenation** to combine **strings** and **integers** in a print statement?

Warm up

What will each code segment print:

```
System.out.println(5+2);  
System.out.println("5+2");  
System.out.println("5"+"2");
```

Lesson Content

Review the Warm Up.

- ★ What is different about how 5+2 and "5"+"2" and "5+2" were written?
- ★ What do you think would print from:
 - System.out.println("5" + 2);

Vocabulary: Concatenation (definition)

The + sign has two uses

Lesson Activity

Using pair-programming protocol, write a program that:

- Prints out each partner's birth date (the day of the month, a # between 1-31)
- Prints out the sum of the two birth numbers in the following format:
 - D1 + D2 = SUM
- Your print statement MUST use concatenation

Ex output:

```
Taylor's birth date is: 20  
Ed's birth date is: 15  
The sum of the dates is: 35  
This is computed as: 20 + 15 = 35
```

Driver/Navigator pairs should alternate every 5 minutes.

Extension: "Stump the Chump"

- Take turns creating an error in the code while the other partner looks away
 - That partner then needs to find and fix the code so that it compiles and runs
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Closing

What do you think this statement will print?

```
System.out.println("Five divided by two is: " + 5/2);
```