- 1a) Four legal identifier names are
 - myVariable
 - score
 - \$total
 - number_of_items_2
- 1b) Four illegal identifiers and why
 - my variable
 - Illegal because identifiers can't have spaces.
 - 2ndPlace
 - Illegal because identifiers can't begin with a number.
 - Class
 - Illegal because it's a reserved keyword in Java.
 - my-variable
 - Illegal because identifiers can't have a hyphen.
- 2a) int numBeads; numBeads = 5;
- 2b) int numBeads = 5;
- 3a) The final value of yourNumber is 13
- 3b) The final value of yourNumber is 11
- 4a) int
- 4b) *float* or *double*
- 4c) int
- 4d) *float* or *double*
- 4e) boolean
- 4f) char
- 5a) A primitive data type is a type of data that holds just a single item, and it is otherwise referred to as a built-in data type. Primitive data types available in Java include: *int*, *double*, *char* and *boolean*. An abstract data type, or class, is a data type that is able to hold both data and methods.
- 5b) A class is a blueprint, or template, for objects. An object is a variable declared with a class. In this way, a class outlines the structure along with attributes and behaviours, while an object is a real, tangible version of a class.

```
11a) y = (int) (j * k);
With Rounding:
y = (int)Math.round(j * k);
```

- 11b) No type casting is needed because both values are doubles, so the result is a double.
- 11c) No type casting is needed since everything is double.
- 11d) j = (int)k;
 - With Rounding:
 - j = (int)Math.round(k);
- 11e) No type casting because you can automatically assign an int to a double.
- 11f) All types match; no casting is needed.

https://g.co/gemini/share/f88dea36f217