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\* Class:Circle Ex15.Prj Pg.15.4 Author: Yin Linhai

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\* Solves the diameter of a circle class using its radius

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\* Course:Computer Science 201Teacher:Mr Blakey

\* School:Sir Winston Churchill High School, Calgary, Alberta, Canada

\* Language: Java SE 7.0Target Operating System: Java Virtual Machine

\* System:Intel Celeron 3GHz running under Windows 7 IDE: Eclipse 4.2

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**public** **class** Circle {

//Constructor method

**public** Circle(**double** r) {

radius = r;

}

//Methods

//area method

**public** **double** area() {

**double** a = Math.*PI* \* radius \* radius;

**return** a;

}

//Circumference method

**public** **double** circumference() {

**double** c = 2 \* Math.*PI* \* radius;

**return** c;

}

//diameter method

**public** **double** diameter() {

**double** d = 2 \* radius;

**return** d;

}

//State Variables

**public** **double** radius;

}

**public** **class** Tester {

/\*\*

\* **@param** args

\*/

**public** **static** **void** main(String[] args) {

Circle cir1 = **new** Circle(35.5);

System.*out*.println(cir1.diameter());

}

}

**Output:**

71.0

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