**UML Diagrams**

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| **Circle** |
| Decimal radius |
| Circle(radius) |
| Decimal getArea()  Decimal getCircumference()  Decimal getRadius()  Void setRadius(decimal radius)  Decimal getPerimeter() |

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| **Cylinder extends Circle** |
| Decimal height  Circle radius |
| Cylinder(height, radius) |
| Decimal getHeight()  Void setHeight(decimal height)  Decimal getVolume()  Decimal getLateralArea()  Decimal getSurfaceArea() |

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| **Rectangle** |
| Decimal length  Decimal width |
| Rectangle(length, width) |
| Decimal getLength()  Void setLength(decimal length)  Decimal getWidth()  Void setWidth(decimal width)  Decimal getArea()  Decimal getPerimeter() |

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| **RectangularPrism extends Rectangle** |
| Decimal height  Rectangle length  Rectangle width |
| RectangularPrism(height, length, width) |
| Decimal getHeight()  Void setHeight(decimal height)  Decimal getVolume()  Decimal getLateralArea()  Decimal getSurfaceArea() |

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| **Sphere** |
| Decimal radius |
| Sphere(radius) |
| Decimal getRadius()  Void setRadius(decimal radius)  Decimal getSurfaceArea()  Decimal getVolume() |

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| **Triangle** |
| Decimal side1  Decimal side2  Decimal side3 |
| Triangle(side1, side2, side3) |
| Decimal getSide1()  Void setSide1(decimal side1)  Decimal getSide2()  Void setSide2(decimal side2)  Decimal getSide3()  Void setSide3(decimal side3)  Decimal getPerimeter()  Decimal getSemiPerimeter()  Decimal getArea() |

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| **TriangularPrism extends Triangle** |
| Decimal height  Triangle side1  Triangle side2  Triangle side3 |
| TriangularPrism(height, side1, side2, side3) |
| Decimal getHeight()  Void setHeight(decimal height)  Decimal getVolume()  Decimal getLateralArea()  Decimal getSurfaceArea() |