Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade:\_\_\_\_\_\_\_\_\_\_

Formula Quiz **Circumference, Perimeter and Area**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1. What is the perimeter of the ribbon pictured below?

|  |  |
| --- | --- |
| 16 mm | https://app110.studyisland.com/pics/14795ribbon.png |
|   | 222 mm |

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 238 mm |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 576 mm |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 3,552 mm |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 476 mm |

 | 1. What is the definition of pi (https://app110.studyisland.com/userfiles/pie2.gif)?

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | the ratio between the circumference and diameter of a circle |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | the ratio between the circumference and area of a circle |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | the ratio between the radius and diameter of a circle |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | the ratio between the area and diameter of a circle |

 |
| 1. The area of a poster is 875 in2. If the width of the poster is 25 in, what is the length of the poster?

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| --- | --- | --- |
| Bubble | **A.** | 35 in |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 45 in |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 15 in |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 25 in |

 | 1. The length of a rectangular rug is 4 feet. If the area is 28 feet2, what is the perimeter of the rug?

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| --- | --- | --- |
| Bubble | **A.** | 49 feet |

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| --- | --- | --- |
| Bubble | **B.** | 112 feet |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 16 feet |

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| --- | --- | --- |
| Bubble | **D.** | 22 feet |

 |
| 1. Mr. Jackson is putting a fence around his circular swimming pool. If the pool has a radius of 30 feet, and the fence is to be three feet away from the pool, how many feet of fencing does he need? Use https://app110.studyisland.com/userfiles/pie2.gif= 3.14.

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 39.14 feet |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 207.24 feet |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 103.62 feet |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 188.4 feet |

 | 1. If Angela wants the table cloth to hang 1 foot over each edge, then how many square feet of material will she need to buy?

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| --- | --- | --- |
| Bubble | **A.** | 40 feet2 |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 55 feet2 |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 32 feet2 |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 1. feet2
 |

 |
| 1. https://app110.studyisland.com/pics/14795quilt6.pngIf each square of the quilt above measures 6 in × 6 in, what is the perimeter of the quilt?

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 540 in |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 96 in |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 36 in |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 90 in |

 | 1. Pablo has a cell phone with a circular range.

If *the radius is 300 feet*, what is the area of the cell phone's range? (Use https://app110.studyisland.com/userfiles/pie2.gif= 3.14.)

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 90,000 ft2 |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 942 ft2 |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 282,600 ft2 |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 1,884 ft2 |

 |

**Surface Area/Volume**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9)https://app110.studyisland.com/pics/49955q3.png If **X** = 8 units, then what is the volume of the cube shown above?

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 384 cubic units |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 512 cubic units |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 544 cubic units |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 1. cubic units
 |

 | 10) If *x* = 2 units, *y* = 11 units, and *z* = 6 units, then what is the volume?

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 200 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 100 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 24 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 132 square units |

 |
| 11) https://app110.studyisland.com/pics/49957pic5.pngIf *x* = 5 units, then what is the surface area of the cube shown above?

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 200 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 150 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 125 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 64 square units |

 | 12)https://app110.studyisland.com/pics/49957pic4.pngIf *x* = 7 units, then what is the surface area of the cube shown above?

|  |  |  |
| --- | --- | --- |
| Bubble | **A.** | 196 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **B.** | 392 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **C.** | 245 square units |

|  |  |  |
| --- | --- | --- |
| Bubble | **D.** | 294 square units |

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