# **NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PER.\_\_\_\_\_\_**

### Test Review – Chapter 11

**5 points added to your test, if complete**

### AREA

**Find the exact area of each polygon.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |

CIRCUMFERENCE AND AREA

**Find the EXACT circumference and area of each circle.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_\_\_ |  |

**ARC LENGTH AND SECTOR AREA**

**Find the exact arc length and sector area for the shaded portion of the following circles.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_ |  |

**COMPOSITE FIGURES**

**Find the exact areas of the shaded regions.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |

AREAS OF REGULAR POLYGONS

**Find the exact area of each regular polygon.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ |  |

EFFECTS OF CHANGING DIMENSIONS ON AREA

**Find the areas indicated.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ | A rectangle has an area of . If its width was as long and its length was as long, what would be its new area? |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ | A square has an area of . If its width was as long and its length was as long, what would be its new area? |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ | A triangle has an area of . If its width was as long and its length was as long, what would be its new area? |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ | A parallelogram has an area of . Find its new area if its base was as long and its height was as long. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ | If one diagonal of a rhombus is and the other is reduced to its original length, by what **factor** would you multiply the original area to obtain the new area? |

EFFECTS OF CHANGING DIMENSIONS ON VOLUME

Find the indicated measures.

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_ | The volume of a rectangular prism is . Find its volume if two of its dimensions were and the third was. |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_ | A cube has a volume of . If one of its dimensions were , a second dimension was , and a third dimension increased to its original length, what would be the new volume? |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_ | The volume of a triangular prism is . Find its new volume if one of its dimensions was , and the other two were reduced to their original length. |

A Mishmash of Answers

π

