Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_

**Areas and Circumferences of Circles\_Classwork**

*Objective: find area of semicircles*

*CC.SS.7.G.4\_MP4 Model with Mathematics*

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| **SEMICIRCLE**  To find the area of a semicircle you: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 1. The area of the orchestra pit is one-half the area of a circle with a diameter of 30 feet. Find the area of the orchestra. Round answer to the nearest tenth and use 3.14 for pi. | 1. Find the area of the semicircular region. Round answer to the nearest tenth and use 3.14 for pi. |
| 1. Find the area of the semicircular region. Round answer to the nearest tenth and use 3.14 for pi. | 1. Find the area of the semicircular region. Round answer to the nearest tenth and use 3.14 for pi. |

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| **SEMICIRCLE**  To find the perimeter of a semicircular region you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 1. Find the perimeter of the semicircular region. Round answer to the nearest tenth and use 3.14 for pi. | 1. Find the perimeter of the semicircular region. Round answer to the nearest tenth and use 3.14 for pi. |
| 1. Find the perimeter of the semicircular region. Round answer to the nearest tenth and use 3.14 for pi. | 1. Find the perimeter of the semicircular region. Round answer to the nearest tenth and use 3.14 for pi. |

**Perimeters of Composite Figures\_Classwork**

*Objective: find perimeters of composite shapes. CC.SS.7.G.4.*

DIRECTION: Round answer to the nearest tenth and use 3.14 for pi.

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Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_

**Area and Perimeter of Composite Figures**

*Objective: find areas of composite figures by separating them into familiar figures.*

*CC.SS.7.G.6\_MP1 Make Sense of Problems of Persevere in Solving Them*

Complete the following questions using your knowledge of composite shapes. Break the composite figures into simpler shapes and calculate the area and perimeter.

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| 1. Find the area and perimeter of the swimming pool.   PERIMETER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AREA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Find the area and perimeter of the running track. Use 3.14 for   PERIMETER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AREA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 1. What is the area and perimeter of the window shown? Use 3.14 for   PERIMETER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AREA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. The diagram at the right gives the dimensions of a swimming pool. If a cover is needed for the pool, what will be the approximate area of the cover? How many feet of metals do you need to buy to have the fence around the pool?   PERIMETER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AREA: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |