**Review: Perimeter & Area of Basic Shapes**

|  |  |  |
| --- | --- | --- |
| SHAPE | PERIMETER | AREA |
| Rectangle/Square | P = 2l + 2w  P =  P = | A= l x w  A =  A = |
| Triangle | P = s1+s2+s3  P =  P = | A =  A = |
| Parallelogram | P = s1+s2+s3+s4  P =  P = | A = b x h  A =  A = |
| Circle | or  C =  C =  What would you do if you know only the radius? | A =  A =  \* remember the radius is half the diameter. |
| Trapeziod | P = a + b + s1 + s2  P =  P = | A =  A = |

**Practice: Area and Perimeter**

Find the area and perimeter (circumference) of each figure:

|  |  |  |  |
| --- | --- | --- | --- |
| a.Rectangle | b.Triangle | | c.Circle |
| d.Parallelogram | | e.Trapezoid | |
| ANSWERS: a. A=12.5m2, P=15m, b. A=54m2, P=41m, c. A=226.08m2, C=37.68m2, d. A=60km2, P=36km, e. A=59.5m2, P=33.4m | | | |

**More Area & Perimeter Practice**

Find the area and perimeter of the following shapes:

|  |  |  |
| --- | --- | --- |
| f.  http://www.helpingwithmath.com/printables/worksheets/rect02.gif | http://www.helpingwithmath.com/printables/worksheets/rect01.gifg. | http://www.helpingwithmath.com/printables/worksheets/circle10.gifh. |
| A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ | A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ | A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ |
| i.  http://www.helpingwithmath.com/printables/worksheets/perm01.gif | http://www.helpingwithmath.com/printables/worksheets/perm02.gifj. | http://www.helpingwithmath.com/printables/worksheets/circle04.gifk. |
| A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ | A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ | A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ |
| l. | m. | http://www.helpingwithmath.com/printables/worksheets/perm04.gifn. |
| A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ | A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ | A = \_\_\_\_\_\_\_\_ P = \_\_\_\_\_\_\_\_ |
| ANSWERS: f. 8cm2, 12cm, g. 15cm2, 16cm, h. 12.56m2, 12.56cm, i. 6cm2, 12cm, j. 30cm2, 30cm, k. 113.04cm2, 37.68cm, l. 10.4m2, 20m, m. 13cm2, 17.4cm, n. 48cm2, 30cm | | |

Area and Perimeter Problems

Complete the table for the circles with the following dimensions/measurements:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Radius | Diameter | Circumference | Area |
| o. | 7 cm |  |  |  |
| p. |  | 21 cm |  |  |
| q. |  |  | 18.84 cm |  |
| r.. |  |  |  | * 1. m2 |

|  |  |
| --- | --- |
| s. The world’s largest dish radio telescope has a diameter of 305 m. What is the circumference of the telescope? | t. A pool has a 50-m fence around 3 sides. One side is 14 m and the other sides are equal.   * 1. How long is each equal side?   2. Fence posts costing $15.59 each is placed every 2 m. how much do the posts cost? |
| u. | v. |
| Determine the simplified expression for the perimeter of this rectangle | Determine the simplified expression for the perimeter of this triangle |
| Determine the simplified expression for the area of this rectangle | Determine the simplified expression for the area of this triangle |
| Calculate the value of w if the perimeter is 76 units | Calculate the area if x=11 |
| ANSWERS: o. 14, 43.96, 493.14, p. 10.5, 65.94, 346.785, q. 3, 6, 28.26, r. 12, 24, 75.36, s. 957.7m, t. 18m, $389.75, u.P=4w+20, A=w2+10w, w=14, v. P=6x+7, A=(x2+4x)/2, 82.5units2 | |