## Surface Area of a Cylinder Date: Solve the problems. If the height is 12 cm and the radius is 5 cm then find the surface area of a cylinder? $534.07 \approx 534 \text{ cm}^2$ Find the surface area of a cylinder whose height is 16 cm and diameter is 18 cm. The height and diameter of a cylinder are 15 feet and 22 feet respectively. Find the surface area of water the cylinder can hold. Use ( $\pi$ = 3.14). Find the radius of a cylinder having the surface area of 980.18 cm<sup>2</sup> and the height of the cylinder is 20 cm? Calculate the height of a cylinder whose surface area is 763.97cm<sup>2</sup> and radius is 6.3 cm. Find the surface area of a cylinder having the radius of the base as 11 cm and the height of the 6) cylinder is 17 cm? Find the surface area of a cylinder having the radius as 11.2 m and the height of the cylinder is 19.2 m? The height and radius of a cylinder-shaped tin are 10 feet and 6 feet respectively. Find the surface area of water the tin can hold. Use ( $\pi$ = 3.14). Calculate the surface area of a cylinder having the radius of the base as 10 cm and the height of 9) the cylinder is 21 cm?

10) Calculate the surface area of a cylinder, if the height is 18 mm and the radius is 13 mm.

## Surface Area of a Cylinder

| Name:                                    |   | Calaa tha aa       |                               |              | Date:                  |
|--|---|--------------------|-------------------------------|--------------|------------------------|
|  |   | Solve the p        |                               |              |                        |
| If the height is 12                      | cm and the radiu                        | is is 5 cm then fi | nd the surface ar             | ea of a cyl  | inder?                 |
| 534.07 ≈ 5                               | 534 cm <sup>2</sup>                     |                    |                               |              |                        |
| Find the surface a                       | area of a cylinder                      | whose height is    | 16 cm and diame               | eter is 18   | cm.                    |
| 1413.72 ≈                                | 1414 cm <sup>2</sup>                    |                    |                               |              |                        |
|  | ameter of a cyliner can hold. Use (τ    |                    | nd 22 feet respec             | ctively. Fir | nd the surface area o  |
| 1796.99 ≈                                | 1797 ft <sup>2</sup>                    |                    |                               |              |                        |
| Find the radius o                        | f a cylinder havin                      | g the surface are  | a of 980.18 cm <sup>2</sup> a | and the he   | eight of the cylinder  |
| 6 cm                                     |   |                    |                               |              |                        |
| Calculate the heig                       | tht of a cylinder w                     | vhose surface are  | ea is 763.97cm² a             | and radius   | s is 6.3 cm.           |
| 13 cm                                    |   |                    |                               |              |                        |
| Find the surface a<br>cylinder is 17 cm  | area of a cylinder<br>?                 | having the radiu   | s of the base as 1            | .1 cm and    | the height of the      |
| 1935.22 ≈                                | 1935 cm <sup>2</sup>                    |                    |                               |              |                        |
| Find the surface a                       | area of a cylinder                      | having the radiu   | s as 11.2 m and t             | the height   | of the cylinder is     |
| 2139.3 ≈ 2                               | 2139 m <sup>2</sup>                     |                    |                               |              |                        |
| •  | dius of a cylinder<br>tin can hold. Use | •                  | 10 feet and 6 feet            | t respectiv  | vely. Find the surface |
| 603.19 ≈ 6                               | 503 ft <sup>2</sup>                     |                    |                               |              |                        |
| Calculate the surf<br>the cylinder is 21 |   | nder having the 1  | radius of the base            | e as 10 cm   | and the height of      |
| 1947.79 ≈                                | 1948 cm <sup>2</sup>                    |                    |                               |              |                        |
| Calculate the surf                       | ace area of a cylin                     | nder, if the heigh | t is 18 mm and t              | he radius    | is 13 mm.              |
| 2532.12 ≈                                | 2532mm <sup>2</sup>                     |                    |                               |              |                        |