Student Name a Date a

**Pressure Quiz**

*For questions 1-6, find the area of each. Remember to use the correct units in your answers!*

1. A 2.

15 in

4 in

12 cm

12 cm

1. A 4.

8 cm

10 cm

7 in

3 in

1. A 6. a

6 in

11 in

5 cm

*For questions 7 and 8, calculate the pressure in N/m2:*

1. A rectangular box is putting force of 120 N on a table top. Find the pressure being put on the table if the side of the box that is touching the table has a length of 1.2 m and a height of 0.5 m.
2. A pyramid is putting a force of 30,000 N on the ground. Find the pressure being put on the ground if the triangular side that is touching the ground has a base of 40 m and a height of 10 m.

*For questions 9 and 10, complete the conversions.*

***Remember: 760 mmHg = 1 atm = 101,325 Pa***

1. Convert 6.6 atm to Pa
2. Convert 162,120 Pa to mmHg