Name Date

9.2



Puzzle Time

Where Do You Find Baby Soldiers?

Write the letter of each answer in the box containing the exercise number.

Find the surface area of the regular pyramid.

Answers

 N. 332.4 cm2

 Y. 309.6 cm2

 A. 304 cm2

 E. 87.6 cm2

 R. 333 cm2

 T. 768 cm2

I. 210 cm2

 T. 462.7 cm2

 N. 390 cm2

 F. 91.8 cm2

 H. 145 cm2

 1. Square base: 

 2. Square base: 

 3. Square base: 

 4. Triangular base:  

 5. Triangular base:  

 6. Triangular base: 


Find the surface area of the *lateral faces* of the regular pyramid.

 7. Pentagonal base: 

 8. Hexagonal base: 

 9. Octagonal base: 

 10. The top of a play canopy tent forms a pyramid with a square base. The sides of the base are 8.5 centimeters. The slant height is 5.4 centimeters. How much canvas is needed to make the canopy?

 11. The base of a glass paperweight is a regular hexagon with a side length of
6 centimeters. The area of the base is 93.6 square centimeters. The slant height is 12 centimeters. What is the surface area of the paperweight?

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 1 | 4 |  | 7 | 8 | 10 | 2 | 6 | 9 | 3 | 11 |
|  |  |  |  |  |  |  |  |  |  |  |  |