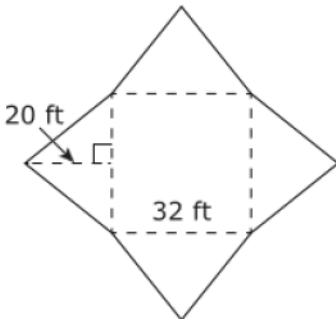


PARCC Assessment Item Illustrating 6.G.A.4

© ITEM RETRIEVED WITH PERMISSION FROM THE PARCC GRADE 6 SPRING OPERATIONAL 2015 END OF YEAR ASSESSMENT. AVAILABLE FROM [HTTPS://PRC.PARCCONLINE.ORG/ASSESSMENTS/PARCC-RELEASED-ITEMS](https://prc.parcconline.org/assessments/parcc-released-items); ACCESSED MARCH 2017. PLEASE REFER TO THE PARCC TERMS OF USE ([HTTPS://PRC.PARCCONLINE.ORG/CONTENT/TERMS-USE](https://prc.parcconline.org/content/terms-use)) OR CONTACT PARCC DIRECTLY FOR ADDITIONAL INFORMATION REGARDING THE USE OF THIS ITEM

The net shown represents a square pyramid.



- Determine the area, in square feet, of one triangular face of the square pyramid.
- Determine the total surface area, in square feet, of the square pyramid.

Enter your answers in the space provided. Enter **only** your answers.

Area of one triangular face: sq ft

Total surface area: sq ft

Answer Key

320

2304

Elaboration on Alignment

This item uses within grade coherence to connect the expectations of 6.G.A.1 that requires students to find the area of triangles to the expectations of 6.G.A.4 that requires students to use nets of three-dimensional shapes to determine their surface area. Since both concepts are new to grade 6, the item is appropriately scaffolded to

ask for the area of the triangle first and then for the surface area of the entire square pyramid second. Using nets (instead of formulas) in grade 6 to build understanding of surface area allows students to see the measurement as two-dimensional even though the figures themselves are three-dimensional. This parallels and builds on students earlier understandings of area and perimeter (see 3.MD.D.8).

Learn More

Learn more with the [Math Assessment Item Alignment Professional Development Modules](#).

All content linked to within this resource was free for use when this resource was published in October 2017. Over time, the organizations that manage that external content may move or remove it or change the permissions. If the content is no longer available, please email info@studentsachieve.net.