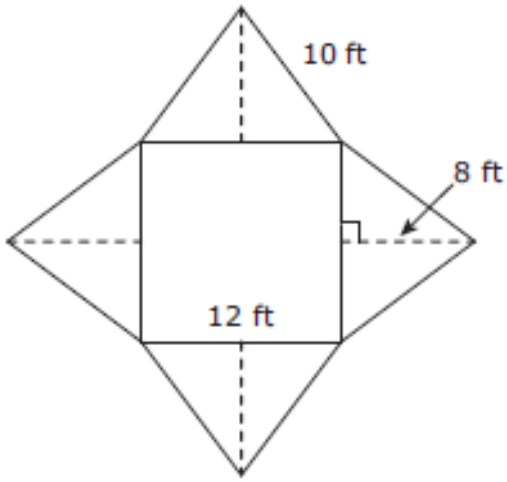
STAAR State of Texas Assessments of Academic Readiness **2016**

7.9D - 3 (S) **twenty five W**

6 The net of a square pyramid and its dimensions are shown in the diagram.



What is the total surface area of the pyramid in square feet?

F 336 ft^2

G 960 ft^2

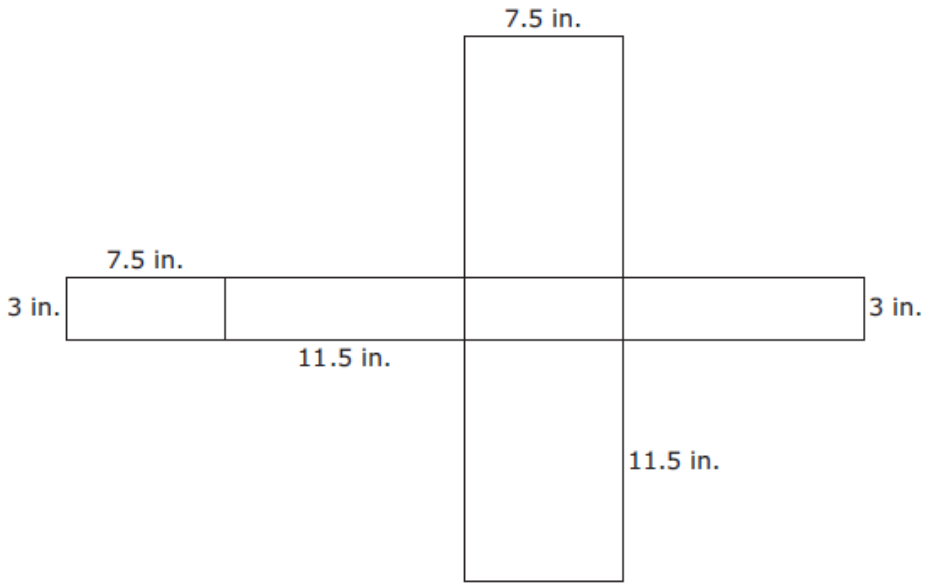
H 204 ft^2

J 624 ft^2

STAAR State of Texas Assessments of Academic Readiness **2017**

7.9D - 3 (S) **twenty nine Z**

29 The net of a rectangular prism and its dimensions are shown in the diagram.



What is the total surface area of the rectangular prism in square inches?

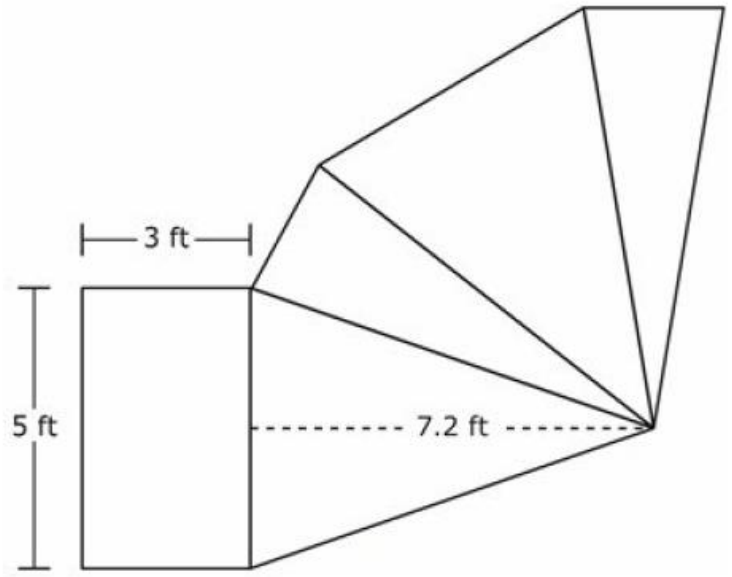
A 143.25 in.^{2}

B 241.5 in.^{2}

C 258.75 in.^{2}

D 286.5 in.^{2}

4 The lateral faces of a sculpture in the shape of a rectangular pyramid are going to be covered with tile. The base of the sculpture is 3 feet long and 5 feet wide. The net of the sculpture is shown below.



What is the area of the sculpture, in square feet, that needs to be covered with tile?

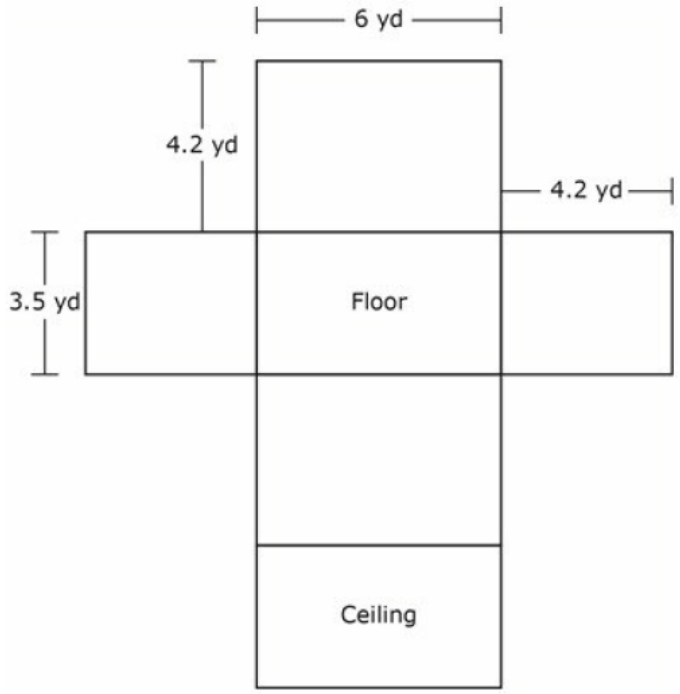
F 115.2 ft^2

G 72.6 ft^2

H 72 ft^2

J 57.6 ft^2

6 The net below shows the dimensions of Michelle's living room. She is going to put wallpaper on the living room walls.



What is the difference, in square yards, between the total and lateral surface areas of the room?

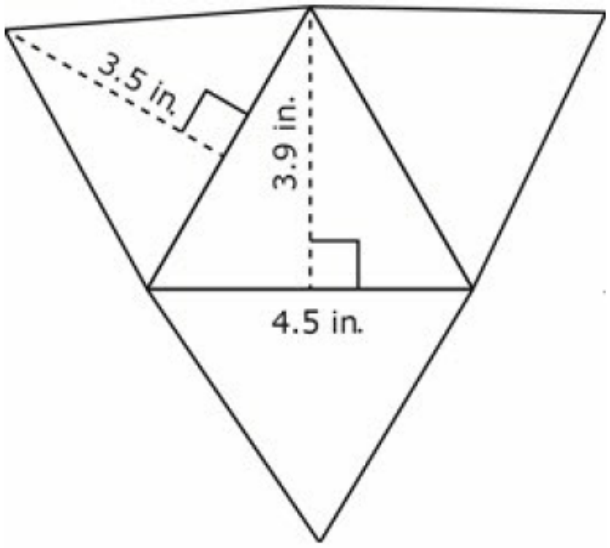
F 121.8 yd^2

G 79.8 yd^2

H 88.2 yd^2

J 42 yd^2

8 Rafael is cutting pieces of wood to make a triangular pyramid like the one shown below. The base of the pyramid is an equilateral triangle, and the faces are isosceles triangles.



What is the surface area of the pyramid that will be made from the pieces of wood?

F 32.4 in.^2

G 23.625 in.^2

H 20.475 in.^2

J 29.25 in.^2