M A T H
G E O M E T R Y

Aye Aye, Area!

3

Calculate the area of the sail by finding the areas of the smaller triangles.

Remember, **triangle area = 1/2 (base x height)**

Area = ½ (6x5) = 15 square feet

5
6

1. **Triangle 1 area = 1/2 (base x height)**
= 1/2 (6 x 6) =1/2 x 36 = 18

2. **Triangle 2 area = 1/2 (base x height)**
= 1/2 (15 x 8) =1/2 x 120 = 60

3. **Triangle 3 area = 1/2 (base x height)**
= 1/2 (8 x 7) =1/2 x 56 = 28

4. **Triangle 4 area = 1/2 (base x height)**
= 1/2 (9 x 2) =1/2 x 18 = 9

5. **Triangle 5 area = 1/2 (base x height)**
= 1/2 (4x 3) =1/2 x 12 = 6

6. **Triangle 6 area = 1/2 (base x height)**
= 1/2 (12 x 11) =1/2 x 132 = 66

Sail area: = 18+60+28+9+6+66

= 187 square feet

1.
6'
6'
8'
8'
3.
2.
7'
15'
11'
9'
5. 3'
2'
4.
6.
4'
12'