



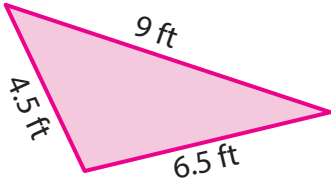
AREA OF SCALENE TRIANGLE

Name _____

Score _____

AT:39

Example : Find the area of scalene triangle. Round the answer to two decimal places.

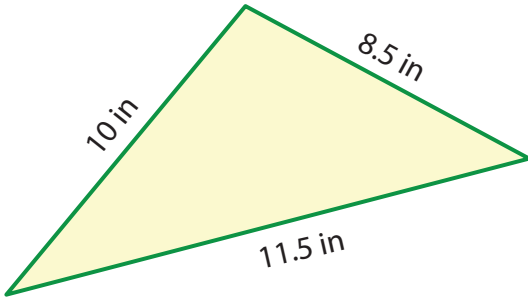


$$\begin{aligned} \text{Area} &= \sqrt{s(s-a)(s-b)(s-c)} \\ s &= \frac{a+b+c}{2} \\ a &= 4.5 \text{ ft}, b = 6.5 \text{ ft}, c = 9 \text{ ft} \\ s &= \frac{4.5+6.5+9}{2} \\ s &= \frac{20}{2} = \mathbf{10 \text{ ft}} \end{aligned}$$

$$\begin{aligned} \text{Area} &= \sqrt{s(s-a)(s-b)(s-c)} \\ &= \sqrt{10(10-4.5)(10-6.5)(10-9)} \\ &= \sqrt{10 \times 5.5 \times 3.5 \times 1} \\ &= \sqrt{192.5} \\ &= \mathbf{13.87 \text{ ft}^2} \end{aligned}$$

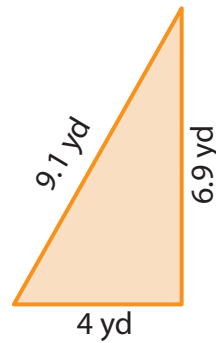
Find the area of scalene triangle and round it to two decimal places.

1)



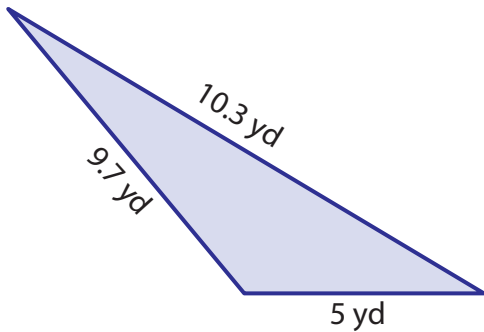
Area = _____

2)



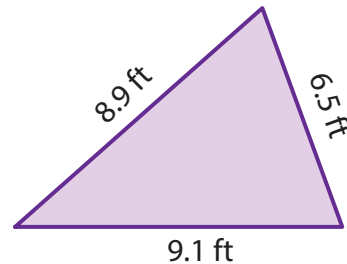
Area = _____

3)



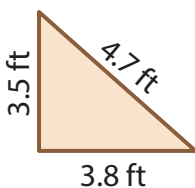
Area = _____

4)



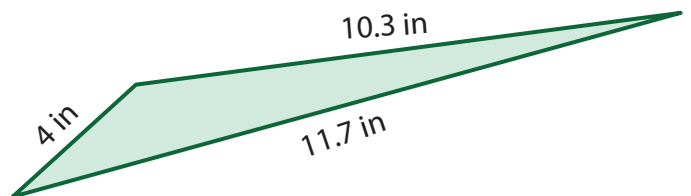
Area = _____

5)



Area = _____

6)



Area = _____



AREA OF SCALENE TRIANGLE

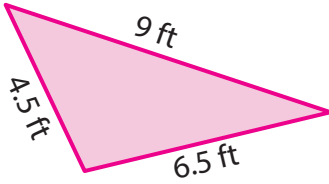
Name _____

Score _____

Answer key

AT:39

Example: Find the area of scalene triangle. Round the answer to two decimal places.

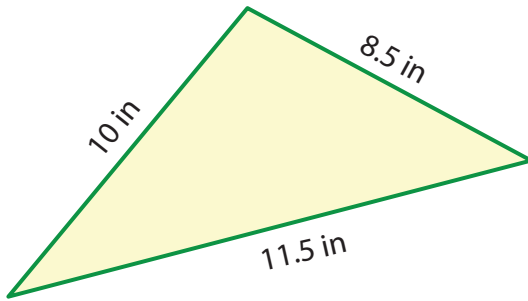


$$\begin{aligned} \text{Area} &= \sqrt{s(s-a)(s-b)(s-c)} \\ s &= \frac{a+b+c}{2} \\ a &= 4.5 \text{ ft}, b = 6.5 \text{ ft}, c = 9 \text{ ft} \\ s &= \frac{4.5 + 6.5 + 9}{2} \\ s &= \frac{20}{2} = \mathbf{10 \text{ ft}} \end{aligned}$$

$$\begin{aligned} \text{Area} &= \sqrt{s(s-a)(s-b)(s-c)} \\ &= \sqrt{10(10-4.5)(10-6.5)(10-9)} \\ &= \sqrt{10 \times 5.5 \times 3.5 \times 1} \\ &= \sqrt{192.5} \\ &= \mathbf{13.87 \text{ ft}^2} \end{aligned}$$

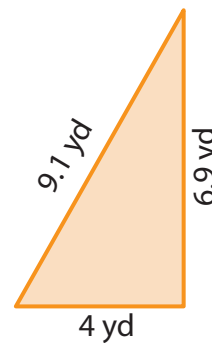
Find the area of scalene triangle and round it to two decimal places.

1)



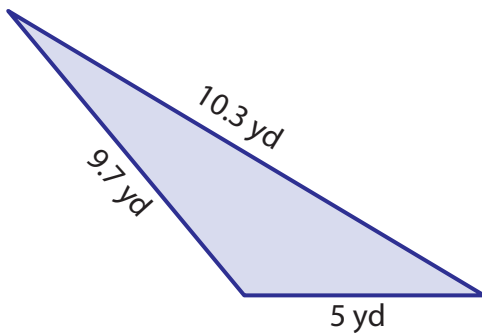
Area = **41.31 in²**

2)



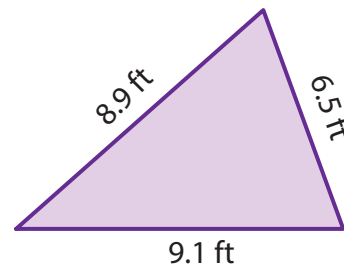
Area = **12.94 yd²**

3)



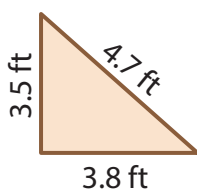
Area = **24.03 yd²**

4)



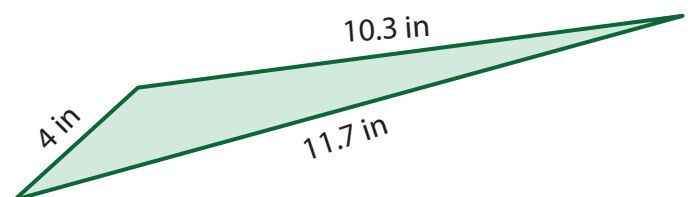
Area = **27.26 ft²**

5)



Area = **6.55 ft²**

6)



Area = **20.26 in²**