**QUIZ #1-**

1. **Strut Depth @ 2 feet**

Vertical Spacing @ 4 feet

Horizontal Spacing @ 4 feet

Soil Force @ 60 psf

SHOW YOUR MATH

1. Calculate the tributary area
2. Calculate the force on the strut (FORMULA: Tributary x Force x Depth)
3. **Strut Depth @ 6 feet**

Vertical Spacing @ 4 feet

Horizontal Spacing @ 4 feet

Soil Force @ 60 psf

SHOW YOUR MATH  
a) Calculate the tributary area

1. Calculate the force on the strut (FORMULA: Tributary x Force x Depth)
2. **Strut Depth @ 14 feet**

Vertical Spacing @ 4 feet

Horizontal Spacing @ 4 feet  
Soil Force @ 60 psf

SHOW YOUR MATH  
a) Calculate the tributary area

1. Calculate the force on the strut (FORMULA: Tributary x Force x Depth)
2. **Strut Depth @ 14 feet**

Vertical Spacing @ 2 feet

Horizontal Spacing @ 4 feet  
Soil Force @ 60 psf

SHOW YOUR MATH  
a) Calculate the tributary area

1. Calculate the force on the strut (FORMULA: Tributary x Force x Depth)

**5. SAFETY FACTOR**  
 GIVEN- 8’ long Paratech Rescue Strut-Strut Strength @ 48,000

a) Using the force from **question # 3** calculate the safety factor for an 8’ long Paratech Rescue Strut (Formula- Strut Strength divided by Soil Force)

SHOW YOUR MATH

b) Using the force from **question # 4** calculate the safety factor for an 8’ long Paratech Rescue Strut (Formula- Strut Strength divided by Soil Force)

SHOW YOUR MATH