**RJEŠENJE ZADATAKA:**

**1. F1 = 200 N**

 **k1 = 2 dm= 0.2 m**

 **k2 = 5 dm = 0.5 m**

 **F2 = ?**

**F2 = F1 x k1 / k2**

**F2 = 200 N x 0.2 m / 0.5 m**

**F2 = 80 N**

**2. F1 = 50 N**

**F 2 = 200 N**

**k2 = 2 dm = 0.2 m**

**k 1 = ?**

**k1 = k2 x F2 / F1**

**k1 = 0.2 m x 200 N / 50 N**

**k1 = 0.8 m**

**3. F = 2 N**

 **Δl = 1 cm = 0.01 m**

**a) k = ?**

**k = F / Δl**

**k = 2 N / 0.01 m**

**k = 200 N/m**

**b) k = 200 N/m**

 **Δl = 4 cm = 0.04 m**

 **F = ?**

**F = k x Δl**

**F = 0.04 m x 200 N/m**

**F = 8 N**

**4. F = 5 N**

 **Δl = 2 cm = 0.02 m**

 **a) k = ?**

**k = F / Δl**

**k = 5 N / 0.02 m**

**k = 250 N/m**

**b) k = 250 N/m**

 **F = 15 N**

 **Δl = ?**

**Δl = F / k**

**Δl = 15 N / 250 N/m**

**Δl = 0.06 m**

**5. m = 5 kg**

 **A = 16 cm2 = 0.0016 m2**

 **p = ?, F = ?**

**F = m x g p = F / A**

**F = 5 kg x 10 N/kg p = 50 N / 0.0016 m2**

**F = 50 N p = 31 250 Pa = 31.25 kPa**

**6. m = 40 kg**

 **A = 4 dm2 = 0.04 m2**

 **p = ?, F = ?**

**F = m x g p = F/A**

**F = 40 kg x 10 N/kg p = 400 N / 0.04 m2**

**F = 400 N p = 10 000 Pa = 10 kPa**

**7. m = 2.5 t = 2500 kg x 5 = 12 500 kg**

 **A = 16 dm2 = 0.16 m2 x 5 = 0.8 m2**

 **p = ?, F = ?**

**F = m x g p = F / A**

**F = 12 500 kg x 10 N/kg p = 125 000 N / 0.8 m2**

**F = 125 000 N p = 156 250 Pa = 156.25 kPa**