

TORQUE I WORKSHEET - ANSWERS

1. 1.14 m from the 300.0 N child
2. 0.459 m from the center
3. 0.75 N
4. $F_2 = 710 \text{ N}$; $F_1 = 580 \text{ N}$
5. $F_2 = 2.07 \times 10^5 \text{ N}$; $F_1 = 2.13 \times 10^5 \text{ N}$
6. $F_2 = 263 \text{ N}$; $F_1 = 133 \text{ N}$
7. 13.8 N up at 0.503 m
8. $F_2 = 5.0 \times 10^2 \text{ N}$; $F_1 = 640 \text{ N}$
9. $F_2 = 15.6 \text{ N}$; $F_1 = 16.4 \text{ N}$
10. 195 N

TORQUE II WORKSHEET - ANSWERS

1. 500 Nm clockwise
2. 520 Nm
3. $F_B = 350 \text{ N}$; $F_H = 300 \text{ N}$
4. $F_B = 567 \text{ N}$; $F_A = 333 \text{ N}$
5. $F_R = 2615 \text{ N}$; $F_L = 5250 \text{ N}$
6. 120 Nm

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