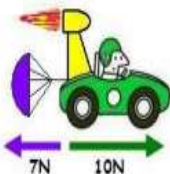


Chapter 12, Section 1 Net Force Worksheet

1. Look at the picture to the right. What is the net force on the car?

Net force = _____

Is this force balanced or unbalanced? _____



2. Look at the picture to the left. The dog is pulling with a force of 30N to the right and the boy is pulling backwards with a force of 18N. What is the net force on them?

Net force = _____

Is this force balanced or unbalanced? _____

3. Look at the picture to the right. Both men are pushing on the refrigerator with a force of 100N. What is the Net force of on the refrigerator?

Net force = _____

Is this force balanced or unbalanced? _____



4. Look at the picture to the left. **Both** of the people on the left are pulling with a force of 30N to the left. On the right side of the rope, one person is pulling with 35 N to the right, and the other person is pulling with 20N to the right. What is the net force on the rope?

Net force = _____

Is this force balanced or unbalanced? _____

5. Look at the picture to the right. The Jet is traveling with a force of 1000N. The friction of the air causes a force of about 50N on the Jet. What is the net force of the Jet?

Net force = _____

Is this force balanced or unbalanced?



Word Problems (try drawing a picture if you need help)

6. Frankie and Caitlin are trying to move a small four-wheeler out of their garage. Frankie pushes with a force of 40N towards the outside. Caitlin pulls with a force of 20 N towards the outside. What is the net force on the four-wheeler?

Net force = _____

Is this force balanced or unbalanced? _____

7. Jennifer just went out and bought a new television to replace her old broken down one. She pushes the new television across her living room floor. She pushes with 18N of force. What is the net force on the television?

Net force = _____

Is this force balanced or unbalanced? _____

8. Kathryn decides to take her dog for a walk one day. Her dog tries pulling on her with a force of 15N. Kathryn pulls back with a force of 20N.

Who is pulling who? _____

Net force = _____

Is this force balanced or unbalanced? _____

9. Look at the picture below. The arrow shows the direction of movement of the two bighorn sheep.

Which sheep is pushing with more force?

Is this force balanced or unbalanced?

