

THE PHYSICS OF SOME COMMON TOOLS 297

Lesson X

1. 10 in.
2. 14 in.
3. 4 lbs.
4. First boy, 33 lbs., Second boy, 23 lbs.

Lesson XI

2. 15 lbs.
3. $1,333\frac{1}{3}$ lbs.
4. 8 lbs.
5. $888\frac{8}{9}$ lbs.

Lesson XII

1. $4\frac{1}{6}$ lbs.
2. 180 lbs.
3. $12\frac{1}{2}$ lbs.; $2\frac{1}{2}$ lbs.
4. $6\frac{1}{2}$ lbs.; $1\frac{1}{2}$ lbs.

Lesson XIII

2. 15 lbs.; 15 lbs.; 3 lbs.
3. 8 lbs.; 8 lbs.; 4 lbs.
5. 2 ft.; 30 foot pounds; 30 foot pounds; yes.
6. 4 ft.; 32 foot pounds; 32 foot pounds; yes.

Lesson XIV

2. 3 lbs.
3. Friction, 10 lbs., force, 3 lbs.
4. 5 lbs.
5. Friction, 20 lbs., force, 5 lbs.

Lesson XV

2. 3 lbs.
3. 150 lbs.
4. A little over 60 lbs.
5. 10 lbs.; hold back 30 lbs.