CP Physics:		Name:
Work, Power, Horsepower Wkst IV	/ 56	Period:

Directions: SHOW ALL OF YOUR WORK, INCLUDING STEPS TO SOLVE EACH PROBLEM.

Formula's: Work FxD Work = F x D Power = ----- = F x Velocity Time t

gravity = 9.8 m/s^2 or 10 m/s^2 (if rounded) HP = 746 N m /sec

1. Solve for the unknown in each of the below problems. 2 pts. each

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W = ?	W = ?	W = ?	W = ?
F = 20 N	F = 100 N	F = 50 N	F = 200 N
D = 2 m	D = 15 m	D = 5 m	D = 0 m

2. Solve for the unknown in each of the below problems. 2 pts. each

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3. Solve for the unknown in each of the below problems. 2 pts. each

4. Solve for the unknown in each of the below problems. 2 pts. each

5. Solve for the unknown in each of the below problems. 2 pts. each

P = 800 W W = ? t = 20 sec P = 120 W = ? t = 3	W = ?	W = ?
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6.	Solve for the unknown in each of the below problems. 2 pts. each

P = 500 W	P = 100 W	P = 600 W	P = ?
F = 40 N	F = ?	F = 100 N	F = 60 N
D = 25 m	D = 2 m	D = ?	D = 40 m
t = ?	t = 10 sec	t = 5 sec	t = 30 sec

7. Convert each answer in #6 into Horsepower. 2 pts. each