NameSubject	 Period	 Teacher			Texas High School Date
oudjeet		_ reaction			
T \$47	Workshe	et - Work 8	& Power Prob	olems	
I. Work A. Sample Problems:					
71. Sample I Toblems.					
1. $F = 200$ Newtons	Formula:				
d = 50 meters	Substitution	:			
W = ?	Answer with	ı unit of me	easure:		_
2. F = 5 Newtons	Formula:				
2. F = 5 Newtons Formula: W = 75 Joules Substitution:					
D = 3					
3. W = 125 Joules	Formula:				_
d = 10 meters	Substitution	·			_
F = ?					
4 If 100 Joules of tree	d. : a maadad 4a m		10 otovo	hat favor v 200	dD
4. If 150 Joules of wor	k is fleeded to fi	love a box .	io illeters, w	nat force was	useu:
B. Fill-in-the-blank:					
1	is dono whor	an object i	movee through	sh a distance h	pocauco of a
			noves unoug	gii a distance t	because of a
	reung upon une	, ojeen			
2. When calculating wo	rk, you should u	se the form	ula: work =	force X	
	1		T. •	. 11	.1 .1
3. The SI unit for work	is the		It is	represented b	y the letter
C. Work Problems:					
4. F = 90 N	5 F	= 6 N		6. W = 120	n ī
d = 5 m		J = 72 J		d = 24 r	
W = ?		= ?		F = ?	
7. W = ?		V = 13.2 J		9. W = 136	·
F = 62.6 N		= 2 N		d = 27.2	m
d = 13 m	d	= ?		F = ?	
10. If 360 Joules of work	are needed to m	ove a crate	a distance of	4 meters wh	at is the weight of th
crate?	are freeded to fir	ove a crate	u distuiree or	i ilictelo, wii	at is the weight of the
11. If a group of workers	* * *		Newtons to m	ove a crate 20) meters, what amou
of work will they have	e accomplished?	j			

12. If 68 Joules of work were necessary to move a 4 Newton crate, how far was the crate moved?

	How much work is done store for 3 minutes.	in holding a 15 N sack of potatoes v	while waiting in line at the grocery				
II. P A. S	ower ample Problems:						
1.	W= 500 Joules t = 25 seconds P = ?	Formula: Substitution: Answer with unit of measure:					
2.	P = 25 watts Formula: W = 5000 JoulesSubstitution: t = ? Answer with unit of measure:						
3.	P = 170 watts t = 20 seconds W = ?	Formula: Substitution: Answer with unit of measure:					
4.	If a man moves a large was used?	box that weighs 10 Newtons 20 met	ers in 30 seconds, how much power				
B. F	ill-in-the-blank:						
1.	is the rate at which work is done.						
2.	 When calculating power, you should use the formula P = divided by In this formula, "P" stands for power, stands for work, and for time. 						
3.	The SI unit for Power i	s the					
C. P	ower Problems						
4.	W = 100 J t = 10 s P = ?	5. W = 225 J P = 25 W t = ?	6. P = 20 W t = 15 s W = ?				
7.	W = 500 J t = 25 s P = ?	8. W = 336 J t = ? P = 14 W	9. W = ? t = 16.6 s P = 64 W				
	a person weighing 600 N nuch power was used?	gets on an elevator. The elevator li	fts the person 6 m in 10 seconds. How				
11. H	Iow much time is needed	l to produce 720 Joules of work if 9	O watts of power is used?				
12. If	f 68 W of power is produ	uced in 18 seconds, how much work	is done?				
13. A	set of pulleys lifts an 80	00 N crate 4 meters in 7 seconds. Wl	nat power was used?				