This task is not designed for numerical scoring.

## Name \_\_\_\_\_



Date \_\_\_\_\_

Oil Business	
In 2018, an oil company rented an oil rig for \$100,000 per day. The company drilled a well and started pumping oil.	
(1)	How much oil must be sold each day to equal the rental cost? Note: 42 gal of oil could be sold for \$70 in 2018.
(2)	The company estimates that the profit, <i>P</i> , in millions of dollars, after pumping oil for <i>D</i> days is $P = 0.5D - 40$ .
	(a) What is the profit after the first day of pumping oil?
	(b) On another sheet of paper or using technology, make a table of pairs of values ( <i>D</i> , <i>P</i> ) and graph the ordered pairs.
	(c) How can the company make \$30M of profit?
(3)	An equivalent expression for <i>P</i> is $0.5(D - 80)$ . How does the 80 in this expression relate to the company's situation?