Name   Date

PERCENTAGE CHANGE WORD PROBLEMS 2

Work out the percentage change. Give your answers to 1 decimal place if needed.

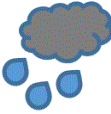|		Working out
1)	The temperature in New York is 52°F. It falls to 36°F overnight.	
	What is the percentage change?	
2)	Sally earns $14 per hour working in a library. She gets a pay rise and now earns $17 an hour.	
	What is the percentage change?	
3)	Frazer has a bluetooth amp with a 30 watt output for his electric guitar. He trades it in for a 50 watt amp.	
	What is the percentage change in output?	
4)	A drone is reduced in price from $75 to $49.	
	What is the percentage change?	
5)	After a touch typing course, Captains typing speed improves from 16 words per minute to 21 words per minute.	
	What is the percentage change?	
6)	In April the average monthly rainfall is 3.60 inches. In May it is 5.15 inches.	
	What is the percentage change in rainfall between April and May?	

PERCENTAGE CHANGE WORD PROBLEMS 2 ANSWERS

Work out the percentage change. Give your answers to 1 decimal place if needed.

		Working out
1)	The temperature in New York is 52°F. It falls to 36°F overnight.	36 – 52 = -16 -16 ÷ 52 = -0.3076… -0.3076 x 100 = -30.76
	What is the percentage change?	-30.8%. There is a 30.8% decrease
2)	Sally earns $14 per hour working in a library. She gets a pay rise and now earns $17 an hour.	17 – 14 = 3 3 ÷ 14 = 0.2142… 0.2142 x 100 = 21.42
	What is the percentage change?	*21.4% increase in pay*
3)	Frazer has a bluetooth amp with a 30 watt output for his electric guitar. He trades it in for a 50 watt amp.	50 – 30 = 20 20 ÷ 30 = 0.6666… 0.6666 x 100 = 66.66
	What is the percentage change in output?	*66.7% increase in output*
4)	A drone is reduced in price from $75 to $49.	49 – 75 = -26 -26 ÷ 75 = -0.3466… -0.3466 x 100 = -34.66
	What is the percentage change?	*-34.7% (or a decrease of 34.7%)*
5)	After a touch typing course, Captains typing speed improves from 16 words per minute to 21 words per minute.	21 – 16 = 5 5 ÷ 16 = 0.3125 0.3125 x 100 = 31.25
	What is the percentage change?	*A 31.3% improvement*
6)	In April the average monthly rainfall is 3.60 inches. In May it is 5.15 inches.	5.15 – 3.60 = 1.55 1.55 ÷ 3.60 = 0.4305… 0.4305 x 100 = 43.05
	What is the percentage change in rainfall between April and May?	*A 43.1% increase in rainfall*