

Name

Date



## PERCENTAGE CHANGE WORD PROBLEMS 2 UK VERSION

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

Working out

- 1) The temperature in New York is  $11^{\circ}\text{C}$ .  
It falls to  $2^{\circ}\text{C}$  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.

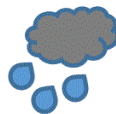


What is the percentage change?

- 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?






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## PERCENTAGE CHANGE WORD PROBLEMS 2 ANSWERS UK VERSION

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

		Working out
1) The temperature in New York is 11°C. It falls to 2°C overnight.		$2 - 11 = -9$ $-9 \div 11 = -0.8181\dots$ $-0.8181 \times 100 = -81.81$
What is the percentage change?		<b>-81.8%. There is a 81.8% decrease</b>
2) Sally earns £14 per hour working in a library. She gets a pay rise and now earns £17 an hour.		$17 - 14 = 3$ $3 \div 14 = 0.2142\dots$ $0.2142 \times 100 = 21.42$
What is the percentage change?		<b>21.4% increase in pay</b>
3) Frazer has a bluetooth amp with a 30 watt output for his electric guitar. He trades it in for a 50 watt amp.		$50 - 30 = 20$ $20 \div 30 = 0.6666\dots$ $0.6666 \times 100 = 66.66$
What is the percentage change in output?		<b>66.7% increase in output</b>
4) A drone is reduced in price from £75 to £49.		$49 - 75 = -26$ $-26 \div 75 = -0.3466\dots$ $-0.3466 \times 100 = -34.66$
What is the percentage change?		<b>-34.7% (or a decrease of 34.7%)</b>
5) After a touch typing course, Captains typing speed improves from 16 words per minute to 21 words per minute.		$21 - 16 = 5$ $5 \div 16 = 0.3125$ $0.3125 \times 100 = 31.25$
What is the percentage change?		<b>A 31.3% improvement</b>
6) In April the average monthly rainfall is 3.60 inches. In May it is 5.15 inches.		$5.15 - 3.60 = 1.55$ $1.55 \div 3.60 = 0.4305\dots$ $0.4305 \times 100 = 43.05$
What is the percentage change in rainfall between April and May?		<b>A 43.1% increase in rainfall</b>