

Name

Date



PERCENTAGE INCREASE / DECREASE / CHANGE PROBLEMS 2

UK VERSION

Find the percentage increases, decreases and changes.

Give your answers correct to 1 decimal place where needed.

Working out

- 1) A film is 124 minutes long.
The uncut version is 15% longer.



How long is the uncut version?

- 2) Flash Harry bought a car for £8,000.
He sold the car a month later for £9,100.



What is his percentage profit?

- 3) Tyger goes spider hunting.
He collects 150 spiders in one day.
He collects 18% fewer spiders the next day.



How many spiders did he collect?

- 4) There are 1123 minutes of daylight
in Anchorage, Alaska in June.
There are 339 minutes of daylight
there in December.



What is the percentage change from June to
December?

- 5) Sally puts £12,000 in a savings account
which pays 3.5% interest per year.



How much money will she have at the end of a year?

- 6) Newton swims 2.4 miles in a week.
He swims 3.1 miles the following week.



What is the percentage change?

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PERCENTAGE INCREASE / DECREASE / CHANGE PROBLEMS

SHEET 2 ANSWERS UK VERSION

Find the percentage increases, decreases and changes.

Give your answers correct to 1 decimal place where needed.

		Working out
1)	A film is 120 minutes long. The uncut version is 15% longer. 	$15\% \text{ of } 120 = 18$ $120 + 18 = 138$
<i>How long is the uncut version?</i>		138 minutes
2)	Flash Harry bought a car for £8,000. He sold the car a month later for £9,100. 	$9100 - 8000 = 1100$ $1100 \div 8000 = 0.1375$ $0.1375 \times 100 = 13.75$
<i>What is his percentage profit?</i>		13.8% profit
3)	Tyger goes spider hunting. He collects 150 spiders in one day. He catches 18% fewer spiders the next day. 	$18\% \text{ of } 150 = 27$ $150 - 27 = 123$
<i>How many spiders did he catch?</i>		He caught 123 spiders.
4)	There are 1123 minutes of daylight in Anchorage, Alaska in June. There are 339 minutes of daylight there in December. 	$339 - 1123 = -784$ $-784 \div 1123 = -0.6981..$ $-0.6981 \times 100 = -69.81$
<i>What is the percentage change from June to December?</i>		-69.8% (or a 69.8% decrease)
5)	Sally puts £12,000 in a savings account which pays 3.5% interest per year. 	$3.5\% \text{ of } 12,000 = 420$ $12,000 + 420 = 12,420$
<i>How much money will she have at the end of a year?</i>		She will have £12,420.
6)	Newton swims 2.4 miles in a week. He swims 3.1 miles the following week. 	$3.1 - 2.4 = 0.7$ $0.7 \div 2.4 = 0.2916...$ $0.2916 \times 100 = 29.16\%$
<i>What is the percentage change?</i>		29.2% increase