

SMART EXAM RESOURCES
TOPIC : NUMBERS
SUB-TOPIC:PERCENTAGE INCREASE
SET-1-QP-MS

- 1** In 1950, the population of Switzerland was 4 714 900.
 In 2000, the population was 7 087 000.

(a) Work out the percentage increase in the population from 1950 to 2000.

Answer (a)..... % [2]

(b) (i) Write the 1950 population correct to 3 significant figures.

Answer (b)(i) [1]

(ii) Write the 2000 population in standard form.

Answer (b)(ii) [1]

MARK SCHEME:

15 (a)	50.3	2	M1 for $\frac{(7087000 - 4714900)}{4714900}$ o.e. must be recognisable complete correct method	
(b) (i)	4710000 or 4.71×10^6	1		
(ii)	7.087×10^6	1	accept 7.09×10^6 , ignore superfluous zeros	
				4

2

In 2004 Colin had a salary of \$7200.

- (a) This was an increase of 20% on his salary in 2002.
Calculate his salary in 2002.

Answer(a)\$ [2]

- (b) In 2006 his salary increased to \$8100.
Calculate the percentage increase from 2004 to 2006.

MARK SCHEME:

(a)	6000	2*	M1 $7200 \div 1.2$ oe
(b)	12.5	2*	M1 $(8100 - 7200) \div 7200$ oe

- 3 A baby was born with a mass of 3.6 kg.
After three months this mass had increased to 6 kg.
Calculate the percentage increase in the mass of the baby.

Answer.....% [2]

MARK SCHEME:

66.7	2	M1 for $\frac{2.4}{3.6} \times 100$ o.e.
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4

In 1997 the population of China was 1.24×10^9 .
In 2002 the population of China was 1.28×10^9 .
Calculate the percentage increase from 1997 to 2002.

Answer % [2]

MARK SCHEME:

3.23	2*	M1 $\frac{\text{figs 4}}{\text{figs 124}}$ or $\frac{\text{figs 128} - \text{figs 124}}{\text{figs 124}}$ Note 3.13 is M0
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