SMART EXAM RESOURCES

TOPIC: NUMBERS

SUB-TOPIC:EXPRESSING A QUANTITY AS A PERCENTAGE OF ANOTHER

SET-1-QP-MS

A house was	s built in	1985	and	cost	\$620	00
It was sold	in 2003	for \$3	3100	000		

(a) Work out the 1985 price as a percentage of the 2003 price.

(b) Calculate the percentage increase in the price from 1985 to 2003.

Answer (b) % [2]

 	l .	ı	-
(a)	20%	2*	M1 for $\frac{62000}{310000}$ x 100
(b)	400%	2*	M1 for $\frac{248000}{62000}$ x 100

Lin scored 18 marks in a test and Jon scored 12 marks. Calculate Lin's mark as a percentage of Jon's mark.

Answer % [2]

+		
150	2	M1 $\frac{18}{12} \times 100$

3 Work out 85 cents as a percentage of \$2.03 .

..... % [1]

41.9 or 41.87	1
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	%	[1]
•••••	, 0	L,1

7.5 oe		1
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In 1970 the population of China was 8.2 x 10⁸. In 2007 the population of China was 1.322 x 10⁹. Calculate the population in 2007 as a percentage of the population in 1970.

Answer %[2]

		161	2	M1 $1.322 \times 10^9 / 8.2 \times 10^8 \ (\times 100)$
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In 1977 the population of China was 9.5 x 10⁸.

In 2007 the population of China was 1.322 x 10⁹.

Calculate the population in 2007 as a percentage of the population in 1977.

Answer %[2]

1		I .
139	2	M1 $1.322 \times 10^9 / 9.5 \times 10^8 \ (\times 100)$

7	Work out 72 cents as a p	percentage of 83 cents
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Answer % [1]

86.7 or 86.74 to 86.75	1	

8 Write 55 g as a percentage of 2.2 kg.

																		 	9/	ó	[2	2	1

2.5	2	B1 for 2200 or 0.055 seen
		or SC1 for answer figs 25

9	Write 26 g as a percentage of 208 g.
9	Write 26 g as a percentage of 208 g

	%	[1]
•••••	70	LŤ.

12.5
