SMART EXAM RESOURCES

TOPIC: NUMBERS

SUB-TOPIC:REVERSE PERCENTAGE

SET-1-QP-MS

1	In 2004 Colin had a salary	of \$7200
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(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.

Answer(b) % [2]

(a)	6000	2*	M1 7200 ÷ 1.2 oe
(b)	12.5	2*	M1 (8100 – 7200) ÷ 7200 oe

2 Amalie makes a profit of 20% when she sells a shirt for \$21.6
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Calculate how much Amalie paid for the shirt.

Answer \$ _____[2]

18	2	M1 for $21.6 \div 1.2$ oe

A student played a computer game 500 times and won 370 of these games. He then won the next *x* games and lost none. He has now won 75% of the games he has played. Find the value of *x*.

$$Answer x = [4]$$

20	4	B1	$\frac{370 + x}{500 + x} = \frac{3}{4}$ oe fraction, decimal, percentage
			two moves completed correctly two more correct moves completed

Amalie makes a profit of 20% when she sells a shirt for \$21.60.

Calculate how much Amalie paid for the shirt.

Answer \$	[2]
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18	2	M1 for 21.6 ÷ 1.2 oe

The table shows the opening and closing times of a café.

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Opening time	0600	0600	0600	0600	0600	(a)	0800
Closing time	2200	2200	2200	2200	2200	2200	1300

(a) The café is open for a total of 100 hours each week. Work out the opening time on Saturday.

1,,,,,,,,,(,,)	[2]
Answer(a)	 L4.

(b) The owner decides to close the café at a later time on Sunday. This increases the **total** number of hours the café is open by 4%.

Work out the new closing time on Sunday.

Answer(b)	 [1]
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MARK SCHEME:

5

(a) (0)700 or 7 am	2	M1 $100 - (5 \times \text{their}(22 - 6) + \text{their}(13 - 8))$
		or better soi
(b) 1700 or 5 pm	1	