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

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.
(b) In 2006 his salary increased to $\$ 8100$.

Calculate the percentage increase from 2004 to 2006.

## MARK SCHEME:

| (a) | 6000 | $\mathbf{2}^{*}$ | M1 $7200 \div 1.2$ oe |
| :--- | :--- | :--- | :--- |
| (b) | 12.5 | $\mathbf{2 *}^{*}$ | M1 $(8100-7200) \div 7200$ oe |

Calculate how much Amalie paid for the shirt.

## Answer \$

[2]

## MARK SCHEME:

18
2
M1 for $21.6 \div 1.2$ oe

3 A student played a computer game 500 times and won 370 of these games.
3 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 $x$.

$$
\text { Answer } x=
$$

## MARK SCHEME:

| 20 | 4 | B1 | $\frac{370+x}{500+x}=\frac{3}{4}$ oe fraction, decimal, percentage <br> M1 <br> two moves completed correctly <br> M1 <br> 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.

## MARK SCHEME:

| 18 | 2 | M1 for $21.6 \div 1.2$ oe |
| :--- | :--- | :--- |

5 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.
(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)

## MARK SCHEME:

| (a) $(0) 700$ or 7 am | $\mathbf{2}$ | M1 $100-(5 \times \operatorname{their}(22-6)+\operatorname{their}(13-8))$ <br> or better soi |
| :--- | :--- | :--- | :--- |
| (b) 1700 or 5 pm | $\mathbf{1}$ |  |

