# SMART EXAM RESOURCES <br> TOPIC: NUMBERS SUB-TOPIC:REVERSE PERCENTAGE SET-2-QP-MS 

1
Anita buys a computer for $\$ 391$ in a sale.
The sale price is $15 \%$ less than the original price.

Calculate the original price of the computer.

## MARK SCHEME:

| 460 | $\mathbf{3}$ | M2 for $\frac{391 \times 100}{(100-15)}$ oe <br> or M1 for recognising 391 as $(100-$ <br> $15) \%$ <br> soi |
| :--- | :--- | :--- |

2
Shona buys a chair in a sale for $\$ 435.60$.
This is a reduction of $12 \%$ on the original price.
Calculate the original price of the chair.

## MARK SCHEME:

| 495 | $\mathbf{3}$ | M2 for $435.6 \div \frac{100-12}{100}$ oe <br> or B1 for recognising 435.6 as $88[\%]$ |
| :--- | :--- | :--- |

3 During a marathon race an athlete loses $2 \%$ of his mass. At the end of the race his mass is 67.13 kg .

Calculate his mass before the race.

Answer
kg [3]

## MARK SCHEME:

| 68.5 www | $\mathbf{3}$ | M2 for $67.13 \div 0.98$ <br> or M1 for 67.13 is $98 \%$ |
| :--- | :--- | :--- |

## MARK SCHEME:

| 134 | $\mathbf{3}$ | M2 for $\frac{20.1 \times 100}{3 \times 5}$ oe <br> or M1 for $\frac{x \times 3 \times 5}{100}=20.1$ <br> or 3\% $=4.02$ oe <br> If 0 scored $\mathbf{S C 1}$ for answer of figs 134 |
| :--- | :--- | :--- |

5 In 2012 the cost of a ticket to an arts festival was $\$ 30$.
5 This was $20 \%$ more than the ticket cost in 2011.
Calculate the cost of the ticket in 2011.

## MARK SCHEME:

| $25[.00]$ | $\mathbf{3}$ | M2 for $30 \times \frac{100}{120}$ oe <br> or M1 for 30 associated with $120 \%$ <br> e.g. $1.2 x=30$ |
| :--- | :--- | :--- |

Jasjeet and her brother collect stamps.
When Jasjeet gives her brother $1 \%$ of her stamps, she has 2475 stamps left.
Calculate how many stamps Jasjeet had originally.

> Answer

## MARK SCHEME:

| 2500 nfww | 3 | M2 for $2475 \div\left(1-\frac{1}{100}\right)$ oe |
| :--- | :--- | :--- |
| or M1 for 2475 associated with $99 \%$ |  |  |

