SMART EXAM RESOURCES

TOPIC: NUMBERS

SUB-TOPIC:REVERSE PERCENTAGE

SET-2-QP-MS

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

Calculate the original price of the computer.

Answer \$	[3]
Aliswel D	 12

460	3	M2 for $\frac{391 \times 100}{(100 - 15)}$ oe
		or M1 for recognising 391 as (100 – 15)% soi

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.

\$.....[3]

495	M2 for $435.6 \div \frac{100-12}{100}$ oe or B1 for recognising 435.6 as $88[\%]$
	of B1 for recognising 155.0 as co[/v]

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

Calculate his mass before the race.

Answer	kg	[3]
211101101	 	1-

M2 for 67.13 ÷ 0.98 or M1 for 67. 13 is 98%

4

Emily invests x at a rate of 3% per year simple interest. After 5 years she has \$20.10 interest.

Find the value of x.

 $Answer x = \dots [3]$

134	3	M2 for $\frac{20.1 \times 100}{3 \times 5}$ oe
		or M1 for $\frac{x \times 3 \times 5}{100} = 20.1$ or 3% = 4.02 oe
		If 0 scored SC1 for answer of figs 134

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

Calculate the cost of the ticket in 2011.

Answer \$ [3]

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

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.

2500 nfww	M2 for $2475 \div \left(1 - \frac{1}{100}\right)$ oe or M1 for 2475 associated with 99%
	01112 101 2 170 1000 011110 111111 1777