SMART EXAM RESOURCES CAMBRIDGE LOWER SECONDARY MATHS STAGE 8 TOPIC: PERCENTAGE INCREASE/ DECREASE/ ABSOLUTE CHANGE SET-1

κ out the Work out the absolute change when 45 is decreased by 300%.

1

MARK SCHEME

-135	-	Award 1 mark for 45 × -3 or equivalent	
		for 45×-2 or equivalent	Implied by -90
		for answer 135	
	1	1	

Cambridge Stage 8 Maths Exam Style Questions

A new car costs \$14000 Every year it loses 18% of its value.

2

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Mark Scheme:

- The original price of the car is **\$14,000**.
- Every year, the car loses 18% of its value.
- We need to find out how much the car is worth after 2 years.

Step 2: Find the Value After 1 Year

Since the car loses 18%, it keeps (100% - 18%) = 82% of its value each year.

This means after 1 year, the value of the car is:

New Value = Old Value
$$\times 0.82$$

 $= 14,000 \times 0.82$

$$= 11,480$$

So, after 1 year, the car is worth \$11,480.

Step 3: Find the Value After 2 Years

Now, the car **again loses 18%** in the second year. So, we multiply **\$11,480** by **0.82** again:

$$= 11,480 \times 0.82$$

= 9,413.60

So, after 2 years, the car is worth \$9,413.60.

The value of Eva's car is \$9000 3 This value decreases by 15%.

Work out the new value of Eva's car.

Mark Scheme:

	Answer	Marks	Part Marks	Guidance
(\$)7650		2	Award 1 mark for 9000 × 0.85 or equivalent or 1350	