


P4.3 Question

Taken from June 2012 - P4/P5/P6 Foundation


To do...

1) Read the question carefully

Two cars, A and B, are used tested by scientists. Car A has a crumple zone but Car B does not. Both cars made the same crash.



car A crumple zone




car B no crumple zone

The scientists make the following measurements during a crash:


	Car A	Car B
Force on driver in N	12000	18000
Time taken to stop in s	0.2	0.2
Change in speed during crash in m/s	15 to 0	15 to 0
Mass of driver in kg	80	80
Mass of car in kg	1200	1200

A government group looks at the data. This data is used as evidence to pass a new law to make crumple zones a legal requirement.

Two people are talking about the new law.



Ken
Making all cars have crumple zones is going to cost us money. I don't understand why we should pay for something that may never be needed to us.



Alice
The data prove that it was a lot less, and help to explain how crumple zones save lives. The Government is trying to reduce the risk to everyone.

Use the data to explain why the Government would choose to make crumple zones a legal requirement even though not everyone agrees with the new law.



The quality of written communication will be assessed in your answer.

P4 Ocr End Of Module Practice Test

Annelies Wilder-Smith



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


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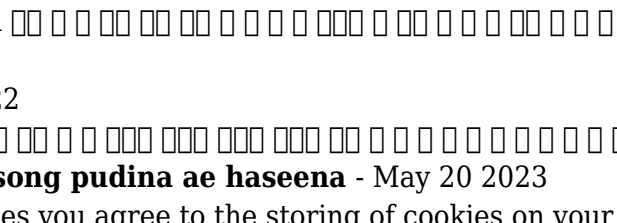
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