

1 Sally pays car insurance and home insurance each year.

| | Last year | This year |
|----------------|-----------|-------------|
| Home insurance | £400.00 | 2% discount |
| Car insurance | £240.00 | 5% increase |

Sally says “The money I save on my home insurance will pay for the increase to my car insurance.”

Is Sally correct?
Show how you decide.

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Answer (4 marks)

Do not write
outside the
box

2 Applicants for a job are called in for interview at random.
There are 20 applicants waiting.
40% of these are female.
Two-thirds of the male applicants are applying for their first job.

Work out the probability that the next applicant interviewed is a male who is applying for his first job.

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Answer (4 marks)

3

Here is an advert for floor tiles.

Classic Floor Tiles

One tile covers 0.25 square metres

Many colours available

Only £ 1.85 each

It is recommended that you buy enough tiles to cover 5% extra area to allow for wastage.

Ethan buys these tiles and allows for wastage.

The floor area is 15 square metres.

Work out the total cost.

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Answer £ (5 marks)