Quiz 5
MAT 118, Spring 2003
circle your section
PRINT your Name:
2 Tues 11:20
3 Thur 12:50
4 Tues 5:30

I flip a coin 5 times in a row. The 32 possible outcomes of this are listed below.

| HHHHH | HHHHT | HHHTH | HHHTT | HHTHH | HHTHT | HHTTH | HHTTT |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HTHH | HTHHT | HTHTH | HTHTT | HTTHH | HTTHT | HTTTH | HTTTT |
| THHH | THHHT | THHTH | THHTT | THTH | THTHT | THTTH | TTHH |
| TTHHH | TTHHT | TTHTH | TTHTT | TTTHH | TTTHT | TTTTH | TTTTT |

1. Find the probability that exactly two of the flips are heads.
2. Find the probability that exactly two of the flips are heads, given that the first flip is tails.
