

Math 101 - Worksheet for Section 10.4

Name: _____

1. If four fair coins are tossed, how many outcomes can be obtained?
2. If four fair coins are tossed, how many outcomes contain **only** Heads?
3. If four fair coins are tossed, how many outcomes contain **at least** 1 Tail?
4. How many subsets are there for the set $\{a, b, c, d, e\}$?
5. How many proper subsets are there for the set $\{a, b, c, d, e\}$?
6. If you roll two 6-sided dice, in how many ways can you obtain a different number on each die?
7. How many two digit numbers are multiple of 2?
8. How many two digit numbers are multiple of 5?

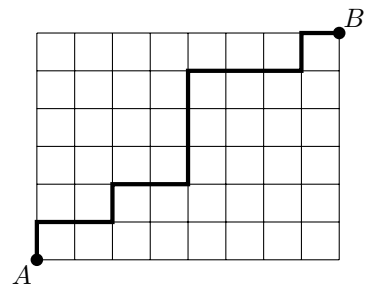
9. How many two digit numbers are multiple of 2 or 5?

10. A card is drawn from a standard 52-card deck. In how many ways could it be a face or less than three?

11. A card is drawn from a standard 52-card deck. In how many ways could it be a face or clubs?

12. How many subsets of a 20-element set have at least 3 elements?

13. How many shortest paths (only Ups and Rights) are there from A to B ? (One such path is shown.)



14. How many shortest paths (only Ups and Rights) are there from A to B , through C ? (One such path is shown.)

