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Name _____

Practice 10.1 - 10.3

Hour ____

- 1. A code is one digit followed by 1 letter. The digit 0 and the letter O are not allowed. How many codes are possible? $q \cdot 2^{5} = 2^{2}$
- 2. Nate is on a 7-day vacation. He wants to spend one day jet-skiing and one day golfing. How many ways can Nate schedule the 2 activities? $7 \cdot 6 = 17$
- 3. A teacher wants to send 4 students to the library from a class of 34. How many possible ways can this be done? 2u = 4637 b
- 4. How many ways can a manager and an assistant be named from a task force of 9 people?

5. A hiker at the entrance of a park can take 4 trails to the lake, and then 3 trails from the lake to the cabins. How many different routes are possible from the park entrance to the cabins by way of the lake?

6. A password is 4 letters followed by 1 digit. If uppercase letters (A) and lower case letters (a) can be used and are considered different, how many passwords are possible?

7. An art gallery has 9 photographs from an artist and wants to display 4 of them from left to right a long a wall. In how many ways can the gallery select and display 4 photographs?

$$\frac{9}{2} \cdot \frac{9}{2} \cdot \frac{1}{2} \cdot \frac{6}{2} = 3,024$$

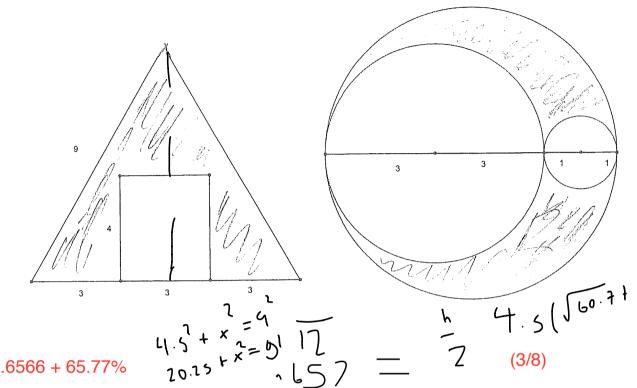
8. A 5-card hand is dealt from a standard 52 card deck. How many ways are there to get at least 3 jacks?

- 9. A 5-card hand is dealt from a standard 52 card deck. How many ways are there to get at most 1 heart?
- 10. The table shows the results of a spinner experiment.
- a) Find the experimental probability of spinning a 4?

b) Find the experimental probability of spinning a number greater than 2?

Number	Occurrences
1	6
2	11
3	19
4	14

11. Find the probability of being inside the shaded region, given that the target is hit.



12. A coach randomly selects 3 swimmers from a team of 8 to swim in a heat. What is the probability that the 3 strongest swimmers are selected?

(1/56)

- 13. There are 3 green marbles, 7 red marbles, and 5 white marbles in a bag. Find the probability:
- a) that the marble chosen is white.

b), that the marble is red or white.

4. A suprtor a dima and a

- 14. A quarter, a dime, and a nickel are flipped. Find the probability: (Might want to draw a sample space.)
- a) that the quarter is a heads.

b) that the dime and the nickel show heads.

1/2

1/4

c) that one coin shows heads.

d) that all 3 coins land the same way.

2/2

2/8

15. A clerk has 4 different letters that need to go in 4 different envelopes. What is the probability that all 4 letters are placed in the correct envelopes?

