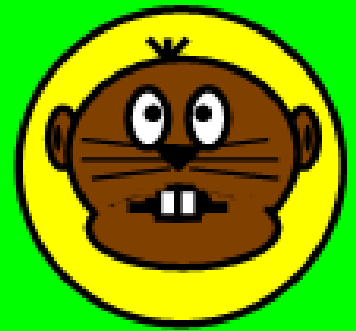


# Whack a Mole

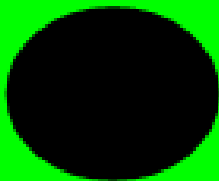
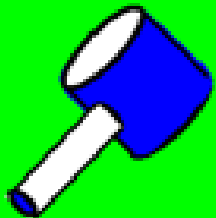
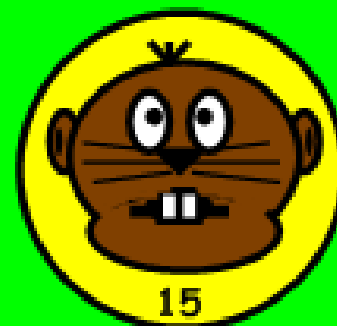
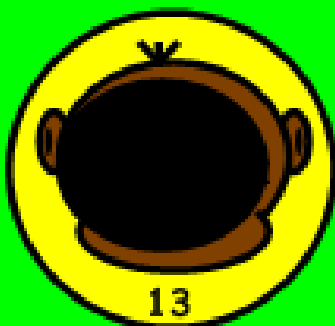
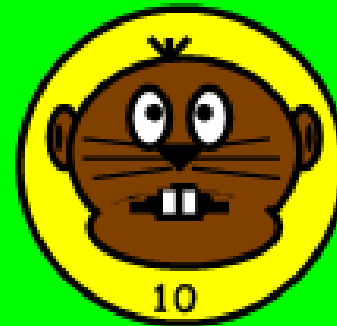
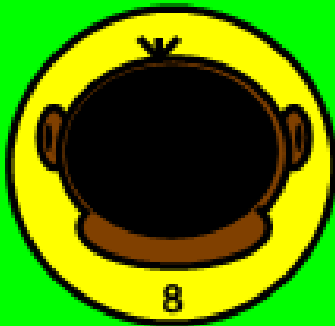
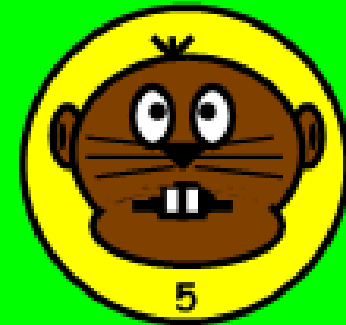
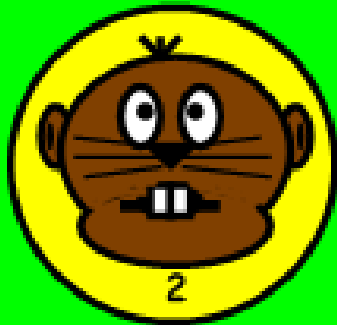
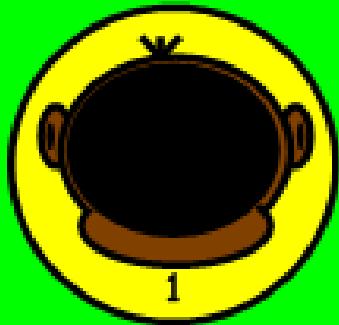


Template Created by Christine Arthur  
Similar Polygons Created by Priscilla Jackson

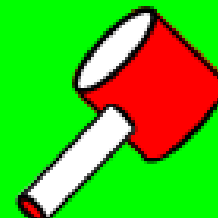
This is a game template that can be used with any subject area. All you need to do is program your question and answers and save it; then you are ready to go. If you have mimio vote you can also enter your question and answers in that format. Split your class into 2 teams. The team with the most correct answers will place their colored hammer on the mole. Feel free to adjust the game directions to fit your needs.



# Whack a Mole



Pull  
For Directions



1.

An electronics company manufactures processors for computers. If 18 processors are defective and 68 are working, give the sample space in set notation for choosing two processors. Is this uniform or non-uniform?

ANSWER

$\{DD, DW, WD, WW\}$

Non-Uniform

Click to return to  
gameboard.



2.

What is the probability that a student will get all five multiple choice questions on a test right if there are 4 choices for each one and the student randomly guesses?

ANSWER

$$\frac{1}{1024}$$

Click to return to  
gameboard.



3.

What is the probability that a student will get all five multiple choice questions on a test wrong if there are 4 choices for each one and the student randomly guesses?

ANSWER

$$\frac{243}{1024}$$

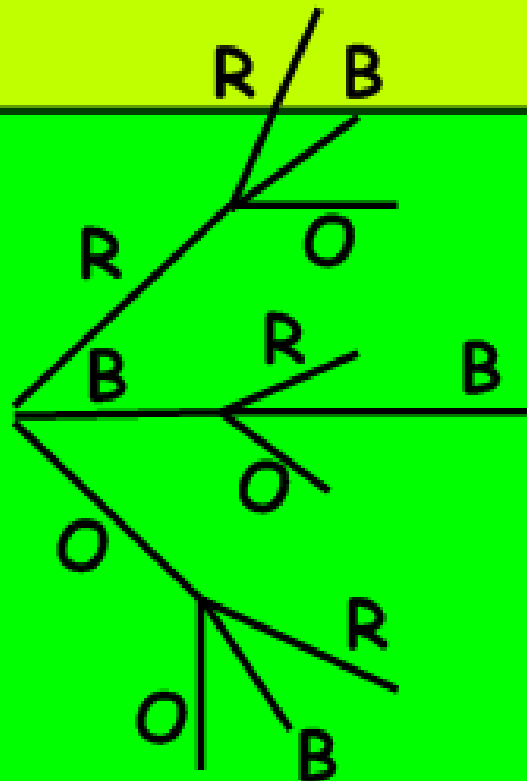
Click to return to  
gameboard.



4.

Draw a tree diagram for the possible outcomes when choosing two marbles from a bag of 5 red, 2 black, and 3 orange without replacement.

ANSWER



Click to return to  
gameboard.



5.

There are 20 students in a club. 15 of them like chocolate ice cream, 6 of them like vanilla ice cream, and 2 like neither. Are there any students who like both vanilla and chocolate ice cream? If so, what is the probability of choosing one of those people?

ANSWER

$$\frac{3}{20}$$

Click to return to  
gameboard.



6.

Make a frequency table given the following information: In a preschool class of 22, there are 8 boys who can tie their shoes, 10 boys, and 6 girls who can't tie their shoes. Find the probability of choosing a girl and someone who can tie their shoes.

ANSWER

	tie	can't tie	total
girl	6	6	12
boy	8	2	10
total	14	8	22

$$\frac{3}{11}$$

Click to return to  
gameboard.





7.

A cookie jar contains two kinds of cookies - 12 oatmeal raisin and 8 chocolate chip. Two year old Tommy is being mischievous and sneaking cookies from the jar. What is the probability that he chooses an oatmeal raisin cookie followed by a chocolate chip cookie if he eats each cookie after choosing it?

ANSWER

$$\frac{24}{95}$$

Click to return to  
gameboard.



8.

A cookie jar contains two kinds of cookies - 12 oatmeal raisin and 8 chocolate chip. Two year old Tommy is being mischievous and sneaking cookies from the jar. What is the probability that he chooses an oatmeal raisin cookie followed by a chocolate chip cookie if he puts the oatmeal raisin cookie back after choosing it because he doesn't like that kind?

ANSWER

$$\frac{6}{25}$$

Click to return to  
gameboard.



9.

A team of students is to be selected to represent PV at the local elementary schools. There are 10 freshman to choose from (6 of whom are female), 14 sophomores to choose from (4 of whom are female), 16 juniors to choose from (8 of whom are female), and 18 seniors to choose from (10 of whom are female). What is the probability that a randomly chosen person from this group will be a senior or a male?

ANSWER

$$\frac{20}{29}$$

Click to return to  
gameboard.



10.

A team of students is to be selected to represent PV at the local elementary schools. There are 10 freshman to choose from (6 of whom are female), 14 sophomores to choose from (4 of whom are female), 16 juniors to choose from (8 of whom are female), and 18 seniors to choose from (10 of whom are female). What is the probability of choosing a female given that a senior was chosen?

ANSWER

$\frac{5}{9}$

Click to return to  
gameboard.



- 11.** A team of students is to be selected to represent PV at the local elementary schools. There are 10 freshman to choose from (6 of whom are female), 14 sophomores to choose from (4 of whom are female), 16 juniors to choose from (8 of whom are female), and 18 seniors to choose from (10 of whom are female). What is the probability of choosing a junior and a male?

ANSWER

$$\frac{4}{29}$$

Click to return to  
gameboard.



12.

From a standard deck of cards, what is the probability of choosing a club followed by a red 8 without replacement?

ANSWER

$$\frac{1}{102}$$

Click to return to  
gameboard.



13.

Given a standard deck of cards, what is the probability of choosing a black card followed by a red card followed by a queen with replacement?

ANSWER

$$\frac{1}{52}$$

Click to return to  
gameboard.



14.

What is the probability of getting a sum of 8 or 10 when you roll two dice?

ANSWER

$$\frac{2}{9}$$

Click to return to  
gameboard.





15.

What is the rule that you can use to test for whether events are independent? You can also use this rule to solve for a missing probability if needed.

ANSWER

$$P(A) \cdot P(B) = P(A \text{ and } B)$$

Click to return to  
gameboard.

