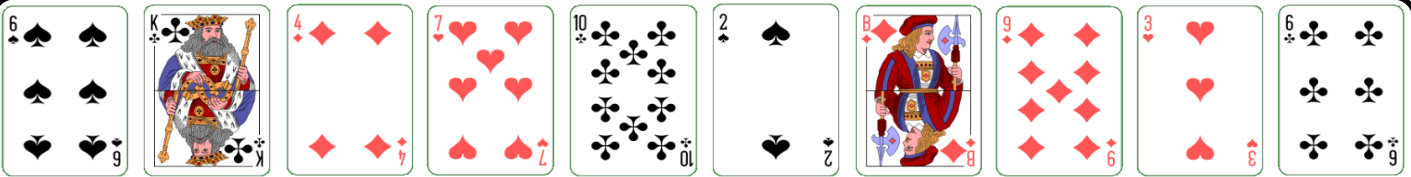




Name: _____



1) Calvin holds 10 playing cards as shown in his hands. Tim selects one card at random.

What is the probability that Tim chooses a:

- | | | | | | |
|------------------|----------------------|---|----------------------|-------------|----------------------|
| a) Jack or King? | <input type="text"/> | d) even or odd number? | <input type="text"/> | g) 3 or 4? | <input type="text"/> |
| b) 7 or 8? | <input type="text"/> | e) diamond \diamond or heart \heartsuit ? | <input type="text"/> | h) 10 or 8? | <input type="text"/> |
| c) 6 or 8? | <input type="text"/> | f) club \clubsuit or spade \spadesuit ? | <input type="text"/> | i) Under 6? | <input type="text"/> |

2) Barney has some letter cards that spell MATHEMATICS.

He takes one card at random: What is the probability that he chooses:



- | | | | | | |
|----------------|----------------------|--------------|----------------------|---------------------|----------------------|
| a) A consonant | <input type="text"/> | c) H or O | <input type="text"/> | e) Not an O or L | <input type="text"/> |
| b) A vowel | <input type="text"/> | d) S, T or L | <input type="text"/> | f) Not an A, S or L | <input type="text"/> |

3) Graham rolls a fair six sided dice. What is the probability that the dices lands on a:



- | | | | | | |
|--------------|----------------------|----------------|----------------------|------------------|----------------------|
| a) 1 or 2 | <input type="text"/> | c) odd or even | <input type="text"/> | e) multiple of 2 | <input type="text"/> |
| b) 2, 4 or 6 | <input type="text"/> | d) factor of 6 | <input type="text"/> | f) square number | <input type="text"/> |

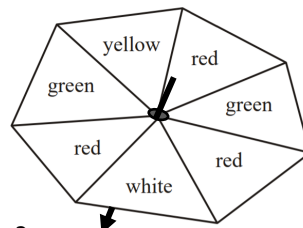
There are some letter cards that spell MATHEMATICS
Hans takes one letter at random and returns it, and then
Greta does the same. What is the probability that:



- | | |
|--|----------------------|
| a) Both Greta and Hans choose a consonant | <input type="text"/> |
| b) Greta chooses and M and Hans chooses a vowel | <input type="text"/> |
| a) Neither Greta or Hans choose a vowel | <input type="text"/> |
| b) Greta chooses a T and Hans chooses an A | <input type="text"/> |
| b) Greta chooses a vowel, but Hans does not | <input type="text"/> |

Exam question:

Here is a fair 7-sided spinner.
The spinner is to be spun once.



- What is the probability that it will land on yellow?
- What is the probability that it does **not** land on white or yellow?

