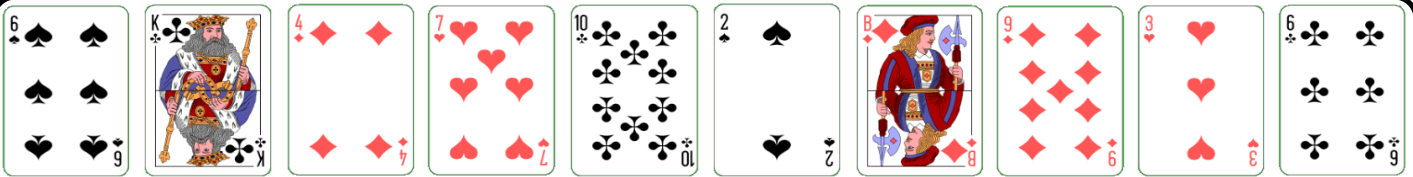




Name: \_\_\_\_\_



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?	$\frac{2}{10}$	d) even or odd number?	$\frac{8}{10}$	g) 3 or 4?	$\frac{2}{10}$
b) 7 or 8?	$\frac{1}{10}$	e) diamond ♦ or heart ♥?	$\frac{5}{10}$	h) 10 or 8?	$\frac{1}{10}$
c) 6 or 8?	$\frac{2}{10}$	f) club ♣ or spade ♠?	$\frac{5}{10}$	i) Under 6?	$\frac{3}{10}$

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	$\frac{7}{11}$	c) H or O	$\frac{1}{11}$	e) Not an O or L	$\frac{1}{11}$
b) A vowel	$\frac{4}{11}$	d) S, T or L	$\frac{3}{11}$	f) Not an A, S or L	$\frac{8}{11}$

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



a) 1 or 2	$\frac{2}{6}$	c) odd or even	$\frac{1}{6}$	e) multiple of 2	$\frac{3}{6}$
b) 2, 4 or 6	$\frac{3}{6}$	d) factor of 6	$\frac{4}{6}$	f) square number	$\frac{2}{6}$

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 <b>and</b> Hans choose a consonant	$\frac{49}{121}$
b) Greta chooses <b>and</b> M and Hans chooses a vowel	$\frac{8}{121}$
a) <b>Neither</b> Greta or Hans choose a vowel	$\frac{49}{121}$
b) Greta chooses a T <b>and</b> Hans chooses an A	$\frac{4}{121}$
b) Greta chooses a vowel, but Hans does not	$\frac{28}{121}$

## Exam question:

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

- a) What is the probability that it will land on yellow?  $\frac{1}{7}$
- b) What is the probability that it does **not** land on white or yellow?  $\frac{5}{7}$

