3.15 Matching Game   Date : . . . .
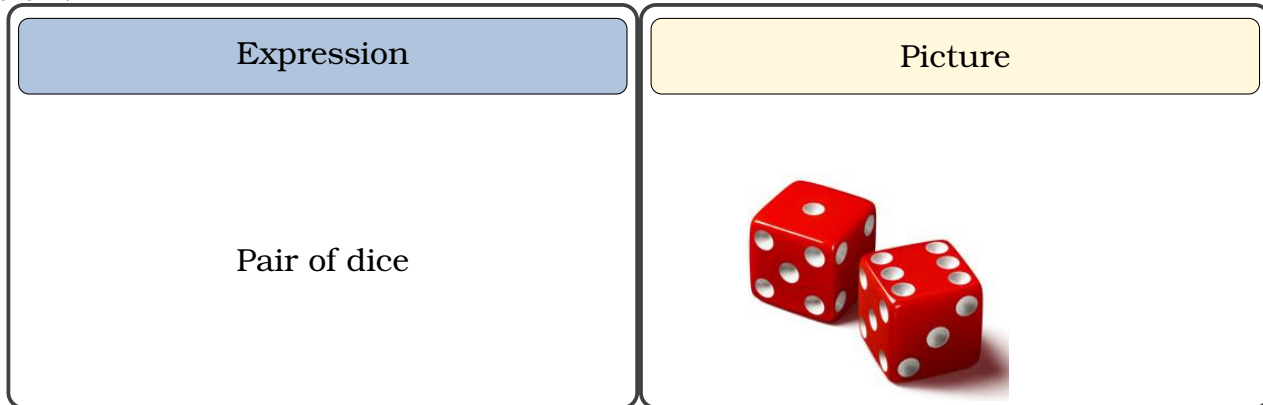
> **Objectives** boost probability vocabulary.

Contents   30 cards in pairs. Each "Picture card" mathces an "Expression card", as illustrated below:

Expression	Picture
Pair of dice	

Rules   A game for 4 players: A, B, C and D.

- Deal the "Expression cards" to two of the players (A and B), and the "Picture cards" to the two remaining players (C and D).

- Keep your own cards secret.

- A starts the game by reading one of his "Expression cards" out to the others.

- C or D has to find out the matching "Picture card" and lay it face up on the table.

- A lays his card face up on the table and all the players check if the cards match.

- And so on and so forth

Expression	Expression	Expression
Pair of dice	Toss a coin	Shuffle the cards
Expression	Expression	Expression
Deal the cards	Heads and tails	A standard deck of playing cards
Expression	Expression	Expression
The Queen of spades	The Jack of clubs	The King of hearts

Picture	Picture	Picture

Picture	Picture	Picture
	Head Tail	

Picture	Picture	Picture

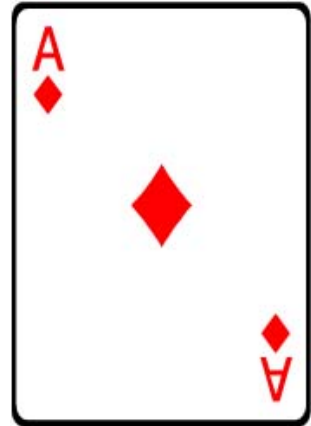| Expression	Expression	Expression
The ace of diamonds	Roll a die	Draw a card from a deck
Expression	Expression	Expression
The four cards suits are clubs, spades, hearts and diamonds.	The picture cards are King, Queen and Jack.	If you roll a fair die, the events "getting a six" and "getting an odd number" are mutually exclusive.
Expression	Expression	Expression
skewed dice	spin the fortune wheel and win !	When rolling two fair dice, the event "getting a sum of 7" is twice more likely than "getting a sum of 3"

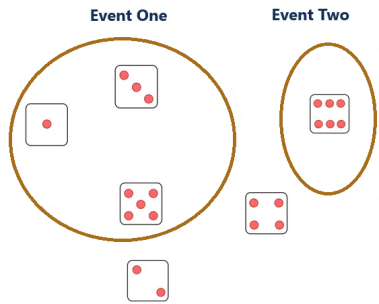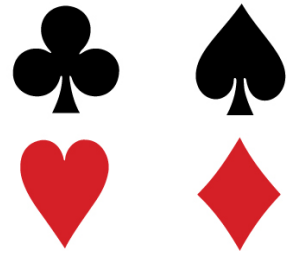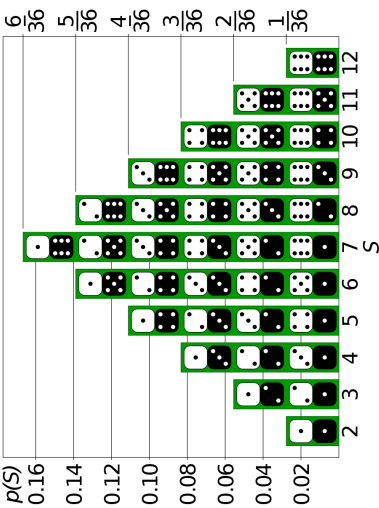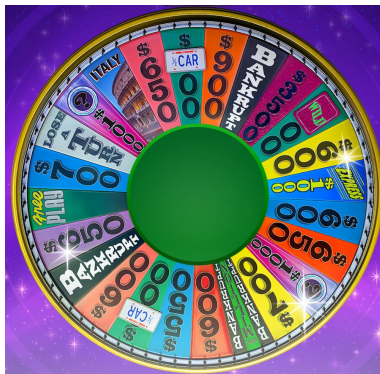| Picture	Picture	Picture
Picture	Picture	Picture
Picture	Picture	Picture

3.16 Summary of vocabulary

A **trial** is the individual repetition of a random experiment : tossing a coin, rolling dice...

An **outcome** is the result of a single execution of a trial.

When tossing a coin, the outcomes are ....

The **sample space** Ω is the **set** of all possible **outcomes** ω.

When rolling a single regular 6 faces die, the outcomes are ....

An **event** A is a subset of the sample space Ω that can happen.

$P(A)$ is the assigned probability of the event A.

english	french
random	aléatoire
a trial	essai (en maths, d'une expérience aléatoire)
an outcome	un résultat, une issue
an event	un événement
a set	un ensemble
a subset	un sous ensemble
to assign	affecter , attribuer
likely	vraisemblable, probable
equally likely	aussi probable, équiprobable
sample	échantillon
sample space	l'univers, l'ensemble des issues possibles
sample space diagram	tableau à double entrée
tree diagram	arbre de probabilité
to roll a die	lancer un dé, faire rouler un dé
to toss	lancer, jeter en l'air
to pick out	prélever, choisir
a coin	une pièce
head	face
tail	pile
fair	(juste, équitable) en maths : équilibré
faire dice	des dés équilibrés
(absolute) frequency	effectif
relative frequency	fréquence
lowercase	minuscule
uppercase	majuscule
a deck of cards	un jeu de cartes
club	trèfle
diamond	carreau
spade	pique
a jack	un valet
a stake	une mise
to stake	miser
at least	au moins
neither ... nor ...	ni ... ni ...