Unit 7

Measurement 4

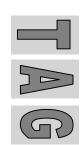
Frequency, Tendency, Probability

JEM/ENG Mesleki Yabancı Dil

(Professional English)

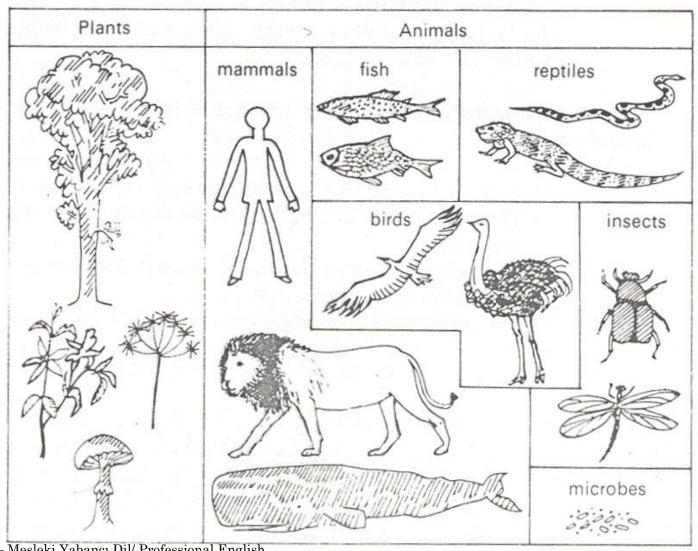
Dr. Veysel İşık Professor

Ankara Üviversitesi Mühendislik Fakültesi Jeoloji Mühendisliği Bölümü



Frequency

Look at these diagrams



Veysel Işık

JEM/ENG – Mesleki Yabancı Dil/ Professional English

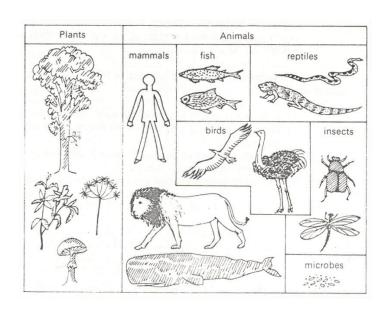
Frequency

Change the statements on the left, which you say how many members of a particular class possess a certain property, into statements of *frequency*, which say *how often* the property occurs:

Example:

All living things consist of cells. Living things *always* consist of cells

- (a) Most plants are green.
- (b) Many birds live in trees.
- (c) Some mammals live in water.
- (d) A few plants flower at night.
- (e) Few fish leave the water.
- (f) No living things are two-dimensional.



(always)

(usually)

(often/frequently)

(sometimes)

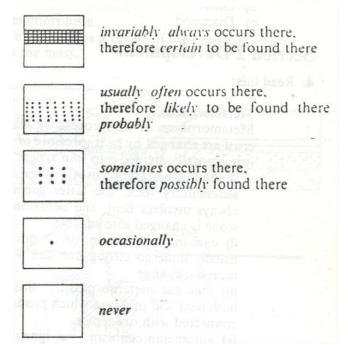
(occasionally)

(rarely)

(never)

Look at this table:

| occurrence | gold | tin | 1 | ead | (| diamond |
|----------------------|------|-----------|-------|----------|-----|---------|
| in sedimentary rocks | 1000 | | 100 g | and star | (4) | 13. Ven |
| in metamorphic rocks | | A 250 3 3 | 21. 1 | | 16 | |
| in igneous rocks | | | | 11111 | | 111111 |
| as an ore | | | | | | |
| naturally occurring | | | **** | • | | |



Ask and answer questions from this table:

Example:

Where does tin often occur?

Tin *often* occurs in igneous rocks.

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Look at this table:

| occurrence | gold | tin | lead | diamond |
|----------------------|-----------|-----|------------|-----------|
| in sedimentary rocks | 100 · 300 | | da estadas | printy E |
| in metamorphic rocks | 11111 | | | A.E.S. |
| in igneous rocks | | | | 111111111 |
| as an ore | | | | |
| naturally occurring | | | 10.7 | |

invariably always occurs there, therefore certain to be found there

usually often occurs there, therefore likely to be found there probably

sometimes occurs there, therefore possibly found there

Ask and answer questions from this table:

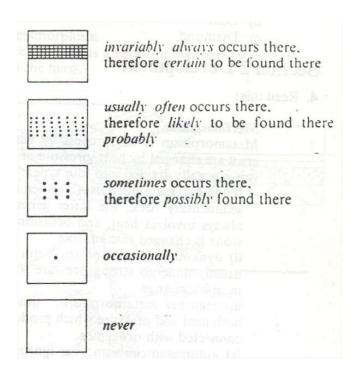
Example:

Where does tin often occur? Thin *often* occurs in igneous rocks.

| Gold often usually occurs in igneous rocks In sedimentary rock in metamorphic rocks as an ore. Diamond occasionally never |
|---|
|---|

Look at this table:

| occurrence | gold | tin | lead | diamond |
|----------------------|------|------------------|-------------|-----------|
| in sedimentary rocks | 122 | erotari vali lan | da magalas. | ainW E |
| in metamorphic rocks | | | 11. | A.E.S. |
| in igneous rocks | | | | 111111111 |
| as an ore | | | | |
| naturally occurring | | | 10.7 7 | |



Answer these questions orally:

- (a) Which minerals are occasionally found in sedimentary rocks?
- (b) Which mineral always occurs as the ore?
- (c) Which minerals occasionally occur naturally?
- (d) Which type of rock is most likely to yield minerals?
- (e) Is it possible for gold to be found in sedimentary rocks?
- (f) Is it possible for diamond to occur as an ore?
- (g) What is the most probable type of rock in which to find lead?
- (h) What is its more probable state when it is found?

Veysel Işık

Tendency

Generalizations which have exceptions express a *tendency*. These statements mean the same:

Most people live in houses.

People generally live in houses.

People tend to live in houses.

Now make statements about the Earth sciences. Add the verb *tend to* those which express tendency. Add *always* to those which are absolutely true. Add *sometimes*, *rarely*, *never* etc. to the others.

| Predicting | Pro | hal | sility | <i>.</i> 7 |
|-------------------|-----|-----|--------|------------|
| redicting | 110 | vai | JIII | y |

| <u> </u> | <u>Scale</u> |
|---|--------------|
| If something occurs, then it will certainly occur | 100% |
| If something nearly always occurs, then it will | |
| almost certainly occur | • |
| usually = will probably | • |
| often = may well | • |
| sometimes = may/will possibly | 50% |
| occasionally = might | • |
| rarely = probably will not | • |
| seldom = probably will not | 0% |

The statements about frequency are based on *observation*. From them we can make *predictions* about the likelihood of something happening. Thus, we know from observation that *rooms always have walls*. Therefore, we can predict that the next room we see *will certainly* have walls.