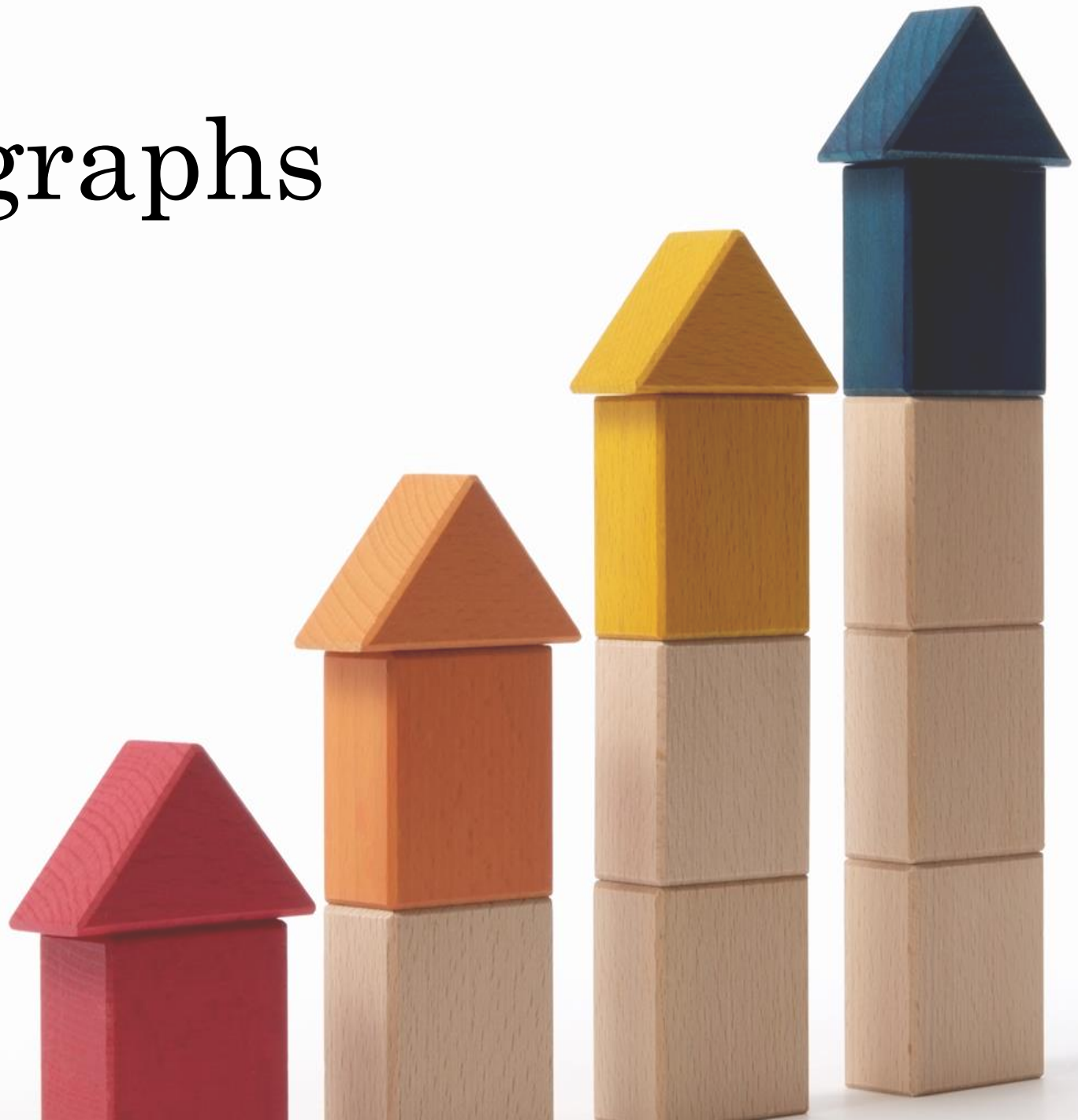


# Describing graphs and charts

Week 5

IT 1080- English for Academic  
Purposes

ELTU – Faculty of  
Humanities and Sciences



# Learning outcomes



Identify the types of  
graphs and charts



Describe a line graph,  
pie chart and bar chart



Use appropriate  
vocabulary



Column



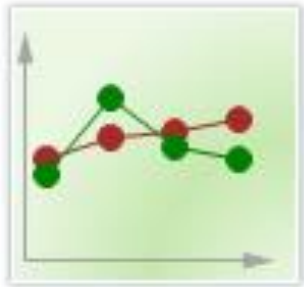
Bar



Pie



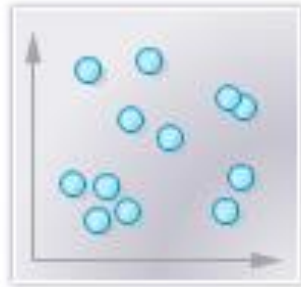
Donutnut



Line



Area



Scatter



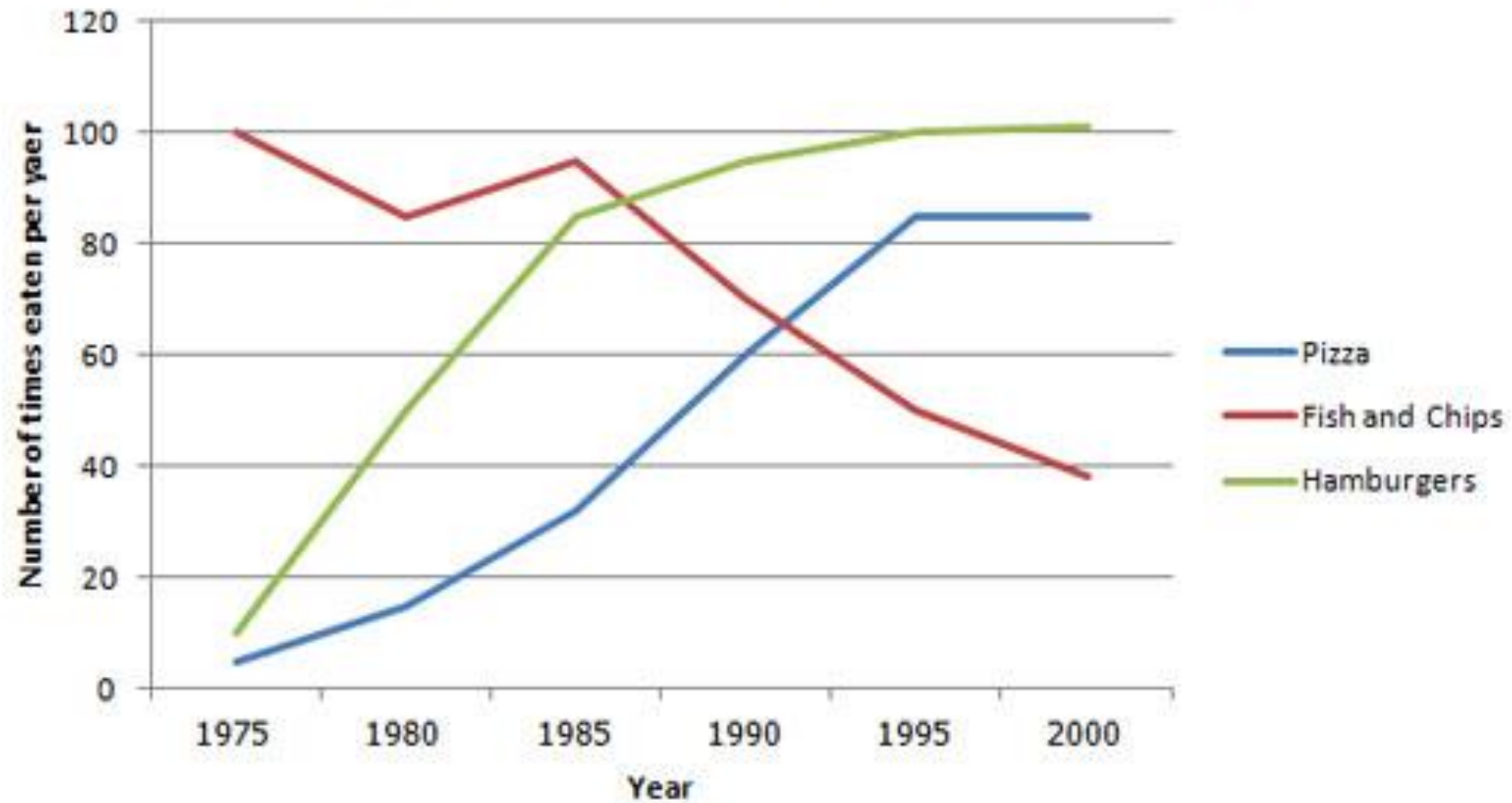
Spider

# Types of charts & graphs

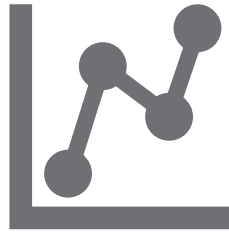


Let's  
describe  
a graph!

## Consumption of Fast Food by Australian Teenagers

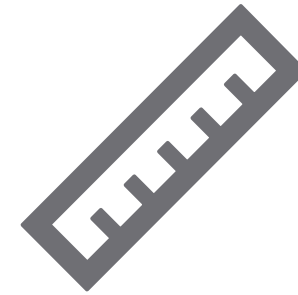


# Step 1: What does the graph show?



**What is the type of the graph shown?**

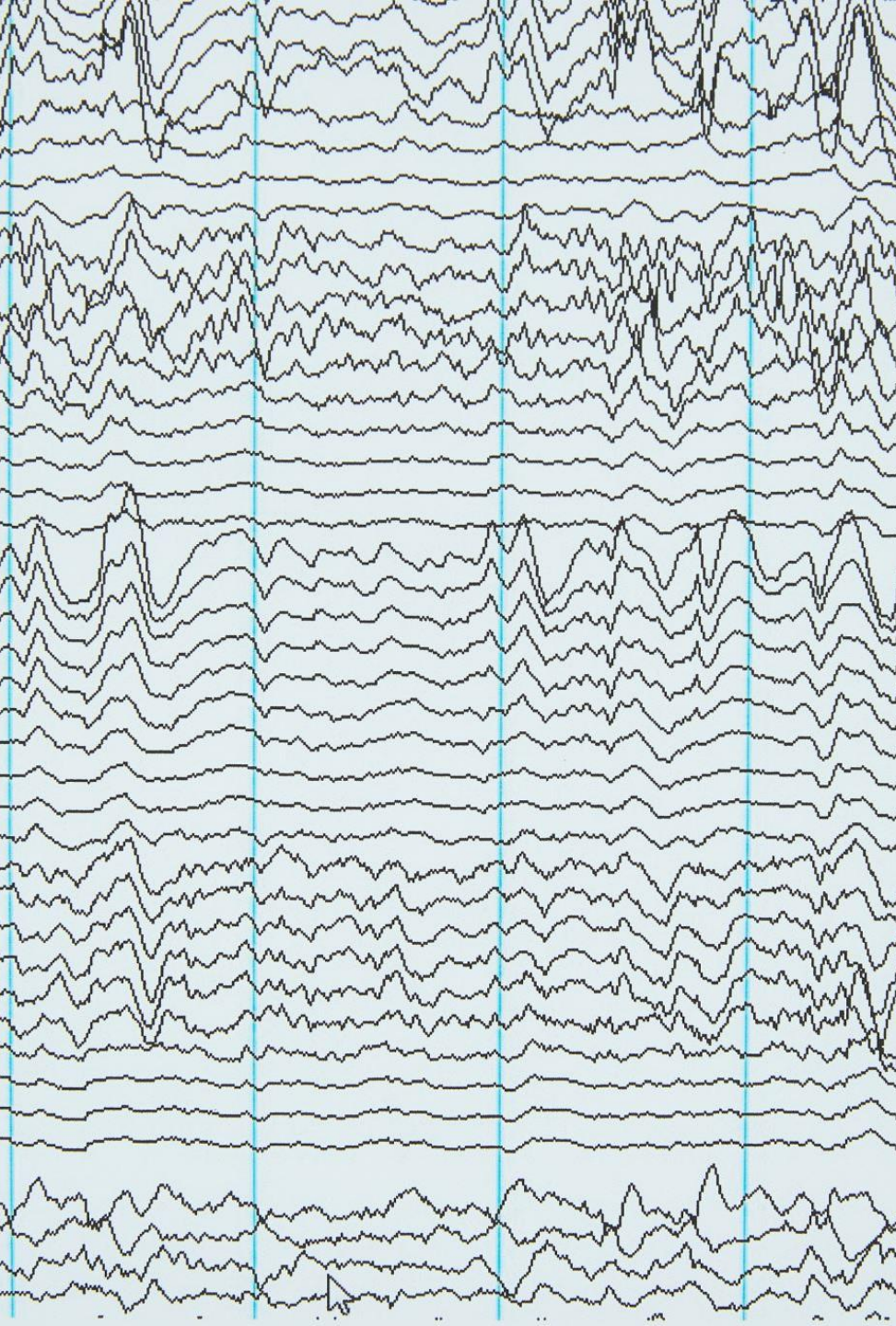
What is the data?



**What are the units of measurement used in the graph?**

Is there a period of time?





## Step 2 : Introduce the Graph

- The graph shows ...
- The graph illustrates...
- The graph compares ...
- The graph gives information about...
  - E.g. The line graph compares the fast-food consumption of teenagers in Australia between 1975 and 2000, a period of 25 years.

# Step 3 : Give an Overview

- An overview is a general statement, highlighting the most important information in the table. It should not include any numbers. This is just a summary of the main features.
  - E.g. Overall, the consumption of fish and chips declined over the period, whereas the amount of pizza and hamburgers that were eaten increased.







## Step 4 : Give the Detail

- Things that you should be looking for include:
  - High/low values
  - Biggest increase/decrease
  - Volatile data
  - Unchanging data
  - Biggest majority/ minority (pie charts)
  - Biggest difference/similarities
  - Major trends
  - Notable exceptions

- The line graph compares the fast-food consumption of teenagers in Australia between 1975 and 2000, a period of 25 years. The X axis represents years, and the Y axis represents the measurement unit which is the number of times eaten per year. There are three lines depicting the consumption of pizza, fish and chips, and hamburgers. Overall, the consumption of fish and chips declined over the period, whereas the amount of pizza and hamburgers that were eaten increased.
- In 1975, the most popular fast food with Australian teenagers was fish and chips, being eaten 100 times a year. This was far higher than Pizza and hamburgers, which were consumed approximately 5 times a year. However, apart from a brief rise again from 1980 to 1985, the consumption of fish and chips gradually declined over the 25-year timescale to finish at just under 40.

- In sharp contrast to this, teenagers ate the other two fast foods at much higher levels. Pizza consumption increased gradually until it overtook the consumption of fish and chips in 1990. It then levelled off from 1995 to 2000. The biggest rise was seen in hamburgers as the occasions they were eaten increased sharply throughout the 1970's and 1980's, exceeding that of fish and chips in 1985. It finished at the same level that fish and chips began, with consumption at 100 times a year.

# Tips

1

**Use appropriate  
academic  
vocabulary**

2

**Use an  
appropriate tense  
base on the  
timeline of the  
data**

3

**Do not use  
expressions like  
“I can see, we can  
see”**

4

**Spend around 20  
minutes to write  
the answer**



# Tenses

Present simple - to describe what the graph shows us now

- The line graph compares a strong correlation is suggested (passive)

Present perfect tense-changes in the data that have happened over a period of time

- The price of oil has fallen by \$5 a barrel every week since July

Past simple - to describe past years

- The average global oil price was close to \$25

Past perfect - to describe what happened before and up to a past time

- by 2007) food prices had risen by around 50 points

Future forms

- will + infinitive
- is/are expected to + infinitive
- is/are predicted to + infinitive

Future- something will be finished by a particular time in the future

- The price of oil will have reached \$300 a barrel by 2020.

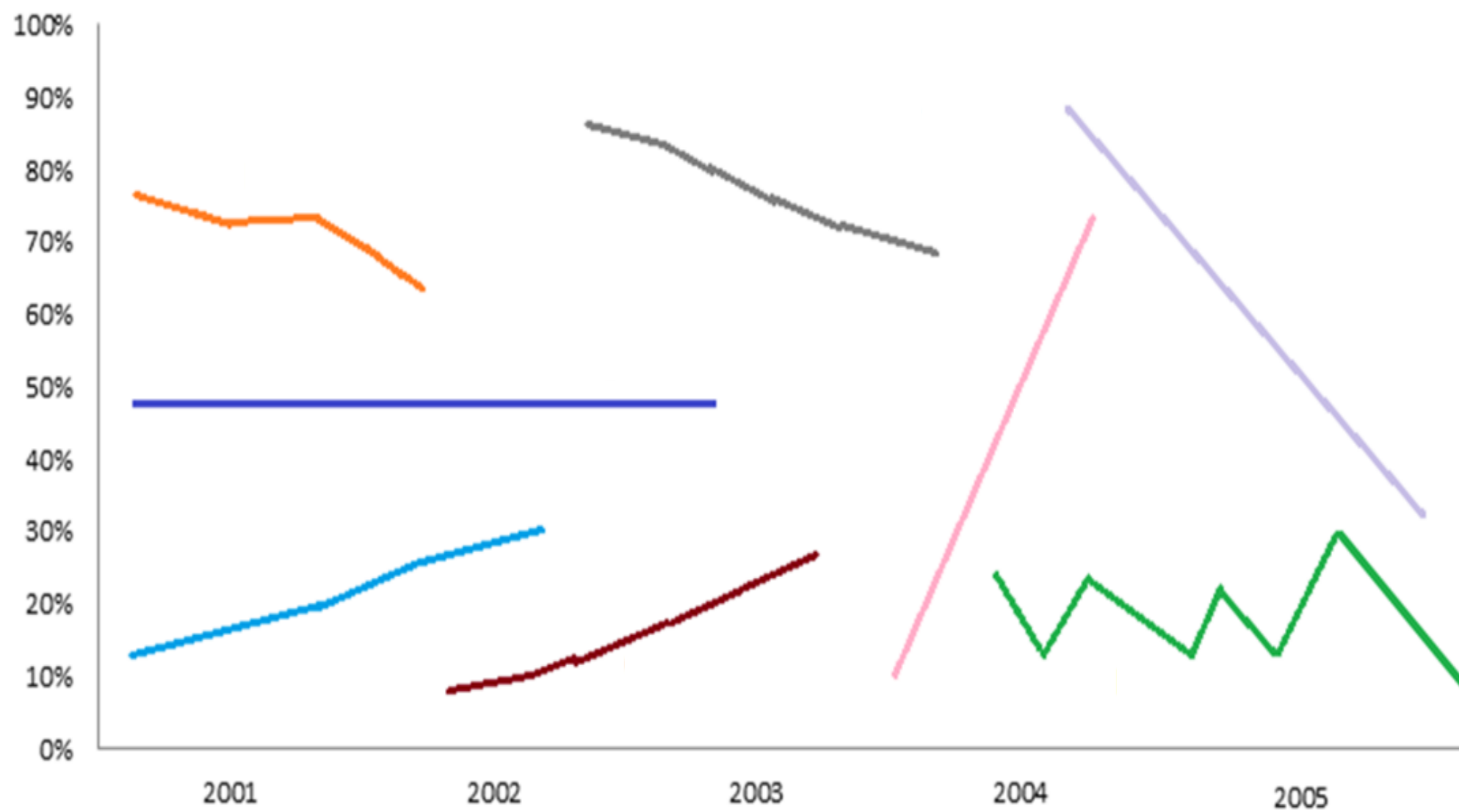
Important vocabulary

# Presenting a graph

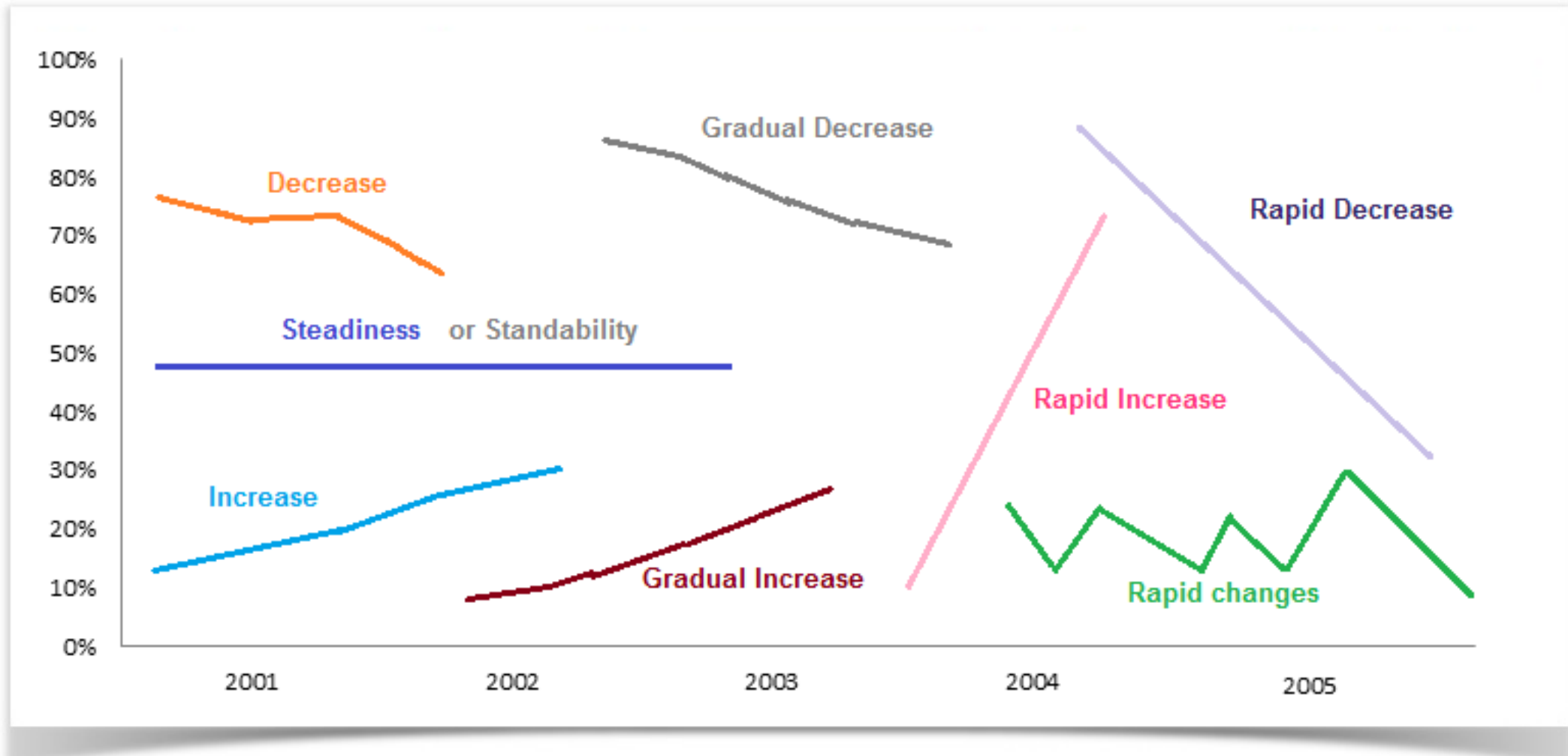
Introduction	Topic	Circumstances
This graph shows ...	the results of our products ...	over 10 years.
The diagram outlines ...	rates of economic growth ...	between 1990 and 1996.
This table lists ...	the top ten agencies ...	in the industrial world.
This pie chart represents	the company's turnover ...	for this year in our sector.
This line chart depicts ...	the changes in sales ...	over the past year.
This chart breaks down (ventile) ...	the sales of each salesman ...	during the past ten weeks.

Indicating the  
degree or the speed  
of change





# Indicating the degree or the speed of change



Trends	Verb form	Noun Form
Increase	rise / increase / uplift / upsurge / soar/ improve/ move upward/ soar/ surge.	a rise / an increase / an upward trend / a growth / a leap / an improvement
Decrease	fall / decrease / decline / plunge / drop / reduce / collapse / deteriorate/ go down	a fall / a decrease / a reduction / a downward trends /a downward tendency / a decline/ a drop / a collapse / a downfall.
Steadiness	unchanged / remain constant / remain steady / plateau / remain the same / remain stable / remain static	a steadiness/ a plateau / a stability/ a static

Trends	Verb form	Noun Form
Gradual increase	-----	an upward trend / an upward tendency
Gradual decrease	-----	a downward trend / a downward tendency / a descending trend
Standability/ Flat	remain(ed) constant / remain(ed) unchanged / remain(ed) stable / prevail(ed) consistency / plateaued / reach(ed) a plateau / stay(ed) uniform /immutable / stabilise/ remain(ed) the same.	No change, a flat, a plateau.



Type of Change	Adverb form	Adjective form
Rapid change	dramatically / rapidly / sharply / quickly / hurriedly / speedily / swiftly / significantly/ considerably / substantially / noticeably.	dramatic / rapid / sharp / quick / hurried / speedy / swift / significant / considerable / substantial / noticable.
Moderate change	moderately / gradually / progressively / sequentially.	moderate / gradual / progressive / sequential.
Steady change	steadily/ ceaselessly.	steady/ ceaseless.
Slight change	slightly / slowly / mildly / tediously.	slight / slow / mild / tedious.
Rapid ups and downs	wave / fluctuate / oscillate / vacillate / palpitate	waves / fluctuations / oscillations / vacillations / palpitations

### Great change / Huge difference:

Adjectives	Adverbs
Overwhelming	Overwhelmingly
Substantial	Substantially
Enormous	Enormously

### Minor change / Small difference

Adjectives	Adverbs
Fractional	Fractionally
Marginal	Marginally
Slight	Slightly

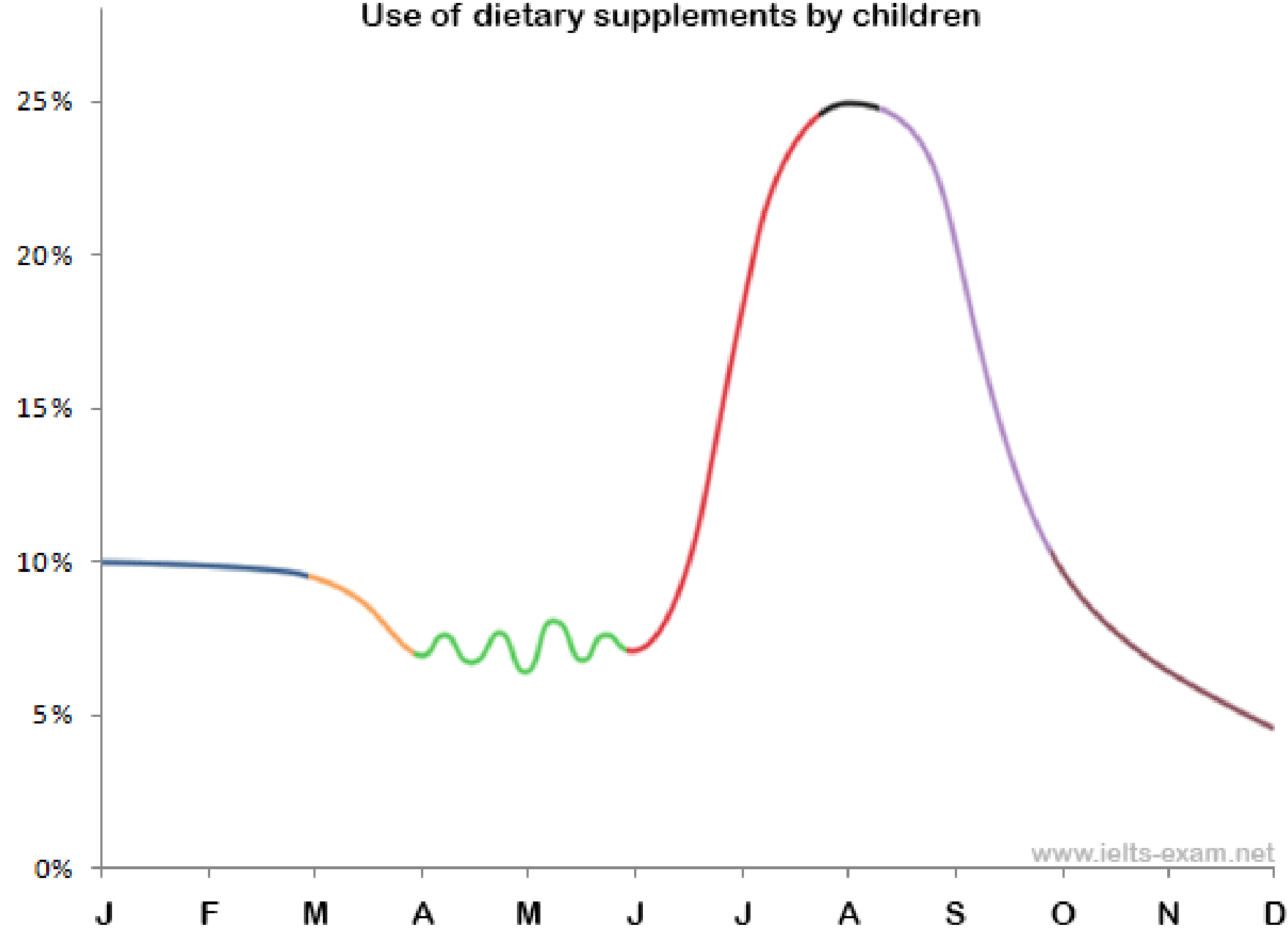
### Big change / Big difference:

Adjectives	Adverbs
Significant	Significantly
Considerable	Considerably

### Medium change / Moderate difference

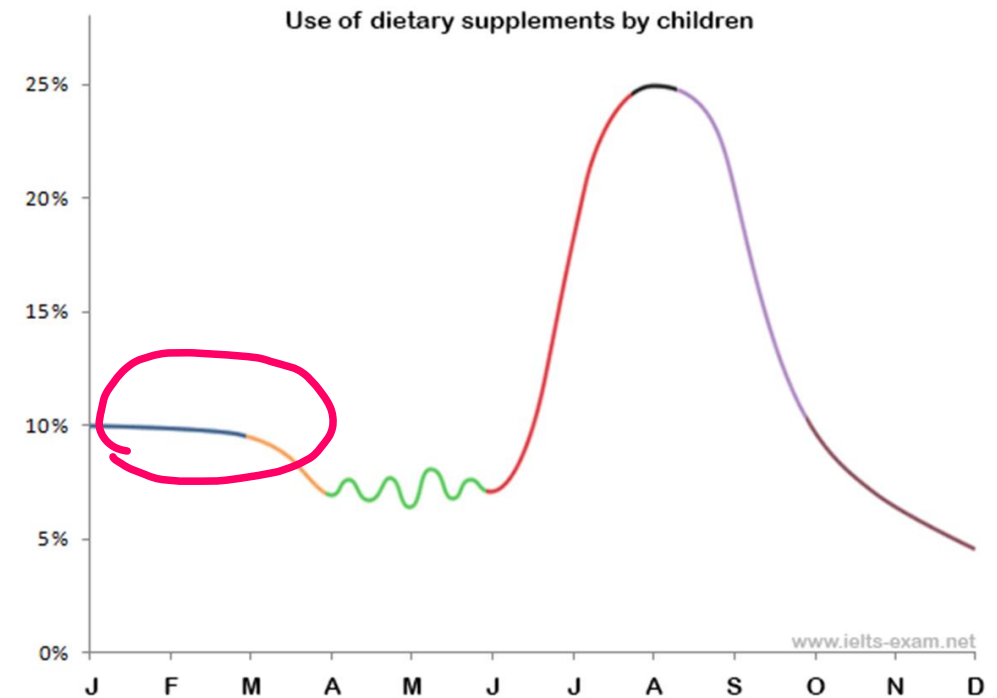
Adjectives	Adverbs
Moderate	Moderately

Use of dietary supplements by children



**remain (-ed, -ed)**  
**unchanged, steady, stable, constant, plateau,**  
**fixed/static**

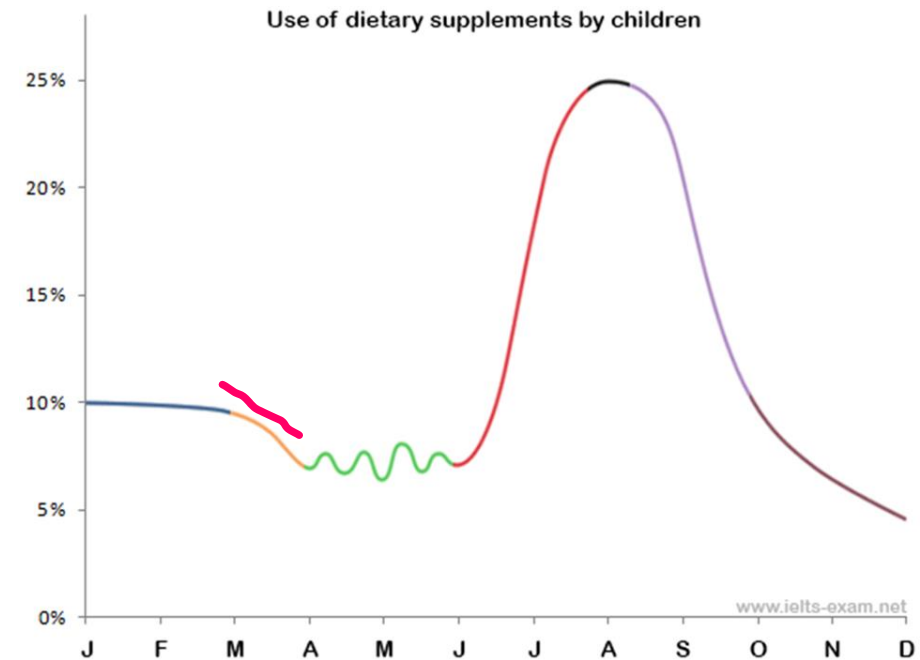
- From January to March the percentage of children using supplements remained fairly static at approximately 10%.
- The percentage of children taking dietary supplements was relatively stable during the first two months of the year.
- During the first two months, supplement use remained fairly unchanged.





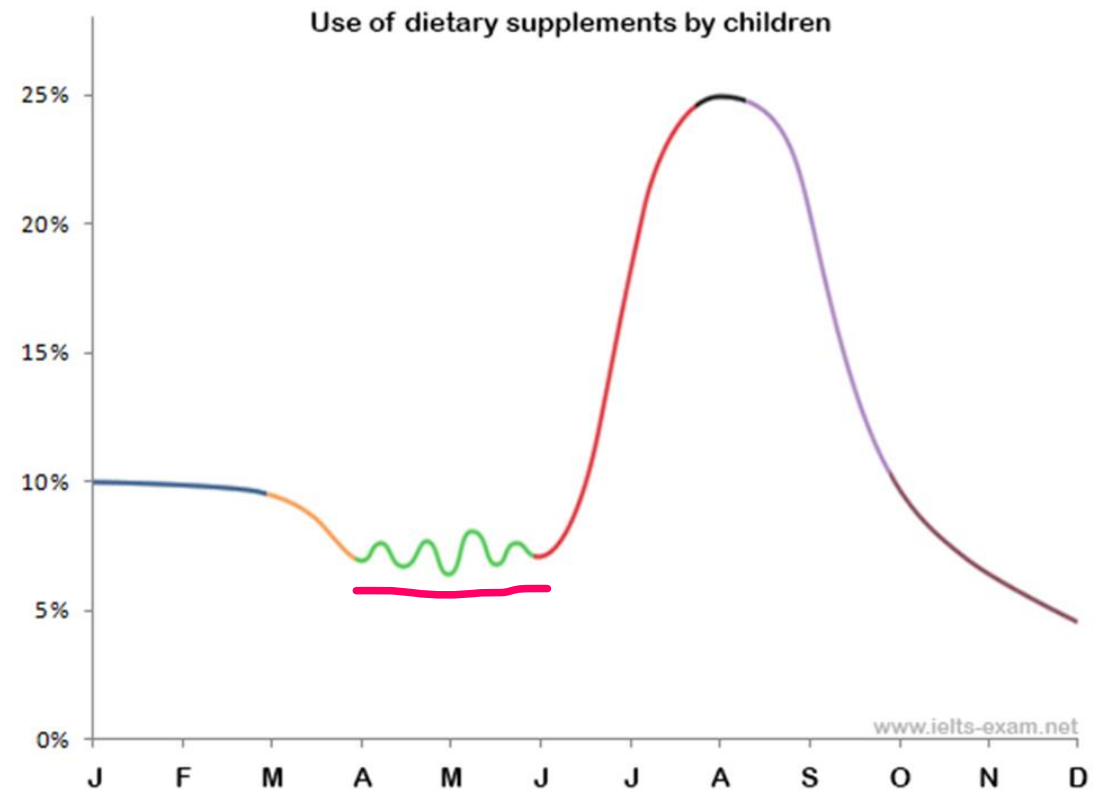
fall (fell, fallen), decrease (-ed, -ed), drop (dropped, dropped), plunge (-ed, -ed), decline (-ed, -ed)  
slight (slightly), steady (steadily), gradual (gradually), gentle (gently), slow (slowly) downward trend

- It then fell gradually in March.
- There was a slight decrease in the use of dietary supplements in March.
- The graph shows a slight decrease in March.
- Supplement use experienced a steady decrease in March.
- Supplement use decreased slightly in March.



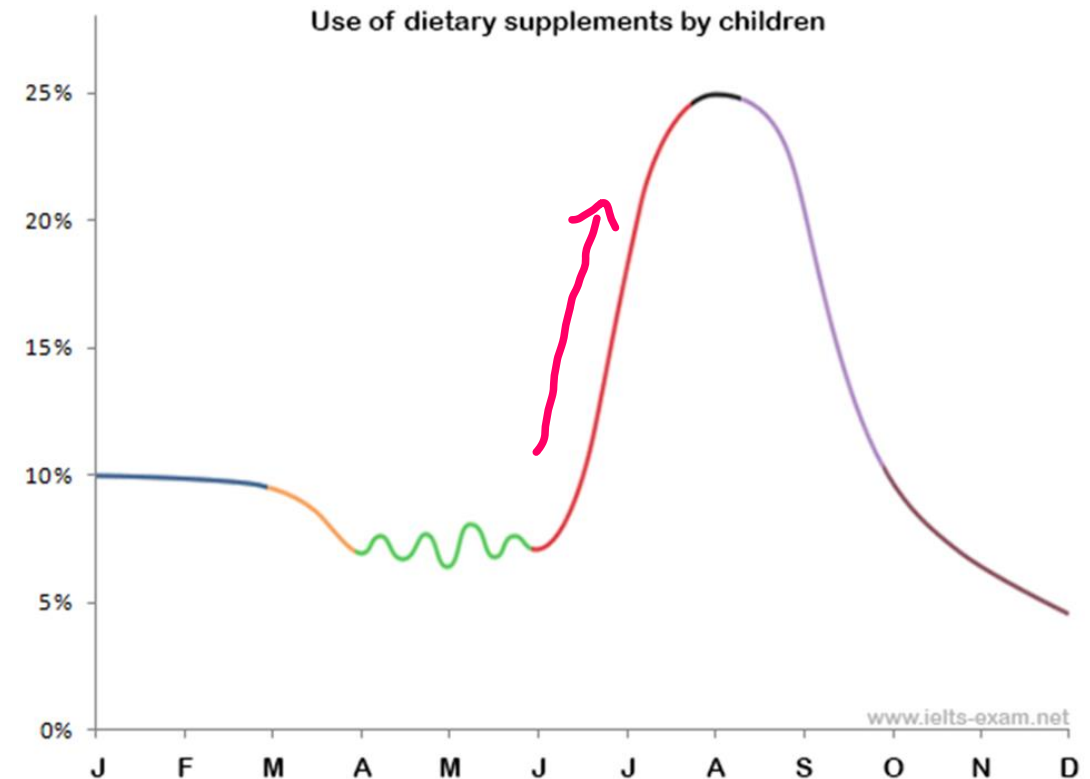
# fluctuate (-ed, -ed)

- It fluctuated for the following two months.



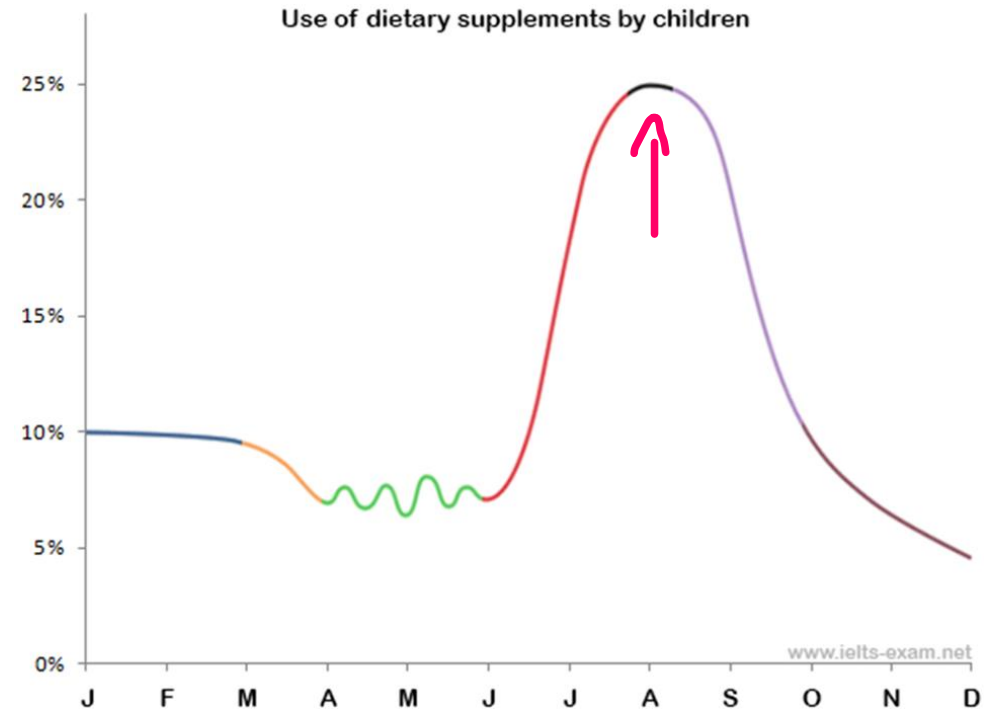
**rise (rose, risen), grow (grew, grown), climb (-ed, -ed), shoot up (shot up, shot up)  
dramatic (dramatically), sharp (sharply), significant (significantly), rapid (rapidly) upward trend**

- There was a significant increase in the percentage of children taking dietary supplements between June and August.
- The period between June and August saw a dramatic growth in the use of dietary supplements.
- Between June and August, the percentage of children taking dietary supplements shot up dramatically.
- The greatest rise was from June to August when it rose by 22% for two consecutive months from June to August.



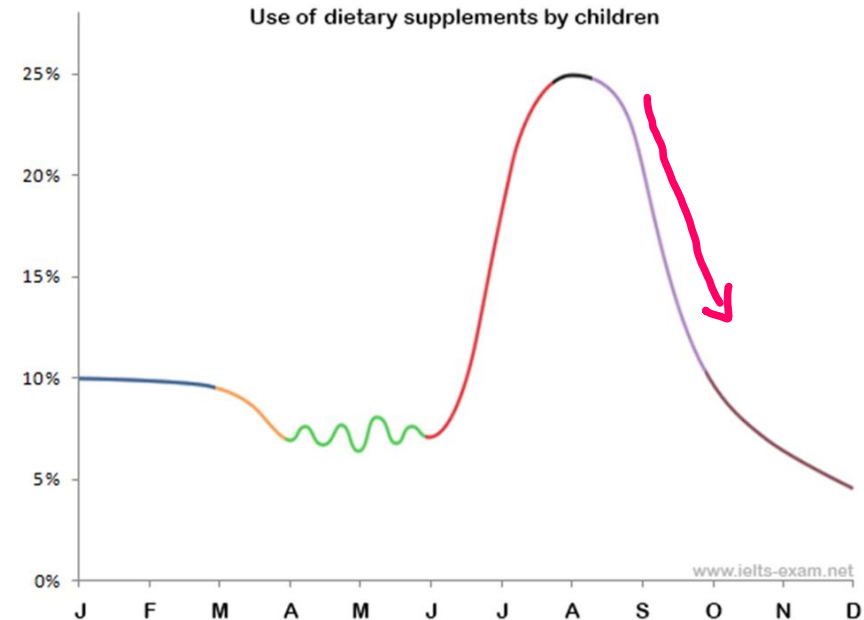
# peak (-ed, -ed), reach (-ed, -ed)

- The percentage of children taking dietary supplements was at its highest level in August
- Supplement use peaked at close to 25% in August
- It reached a peak of 25% in August



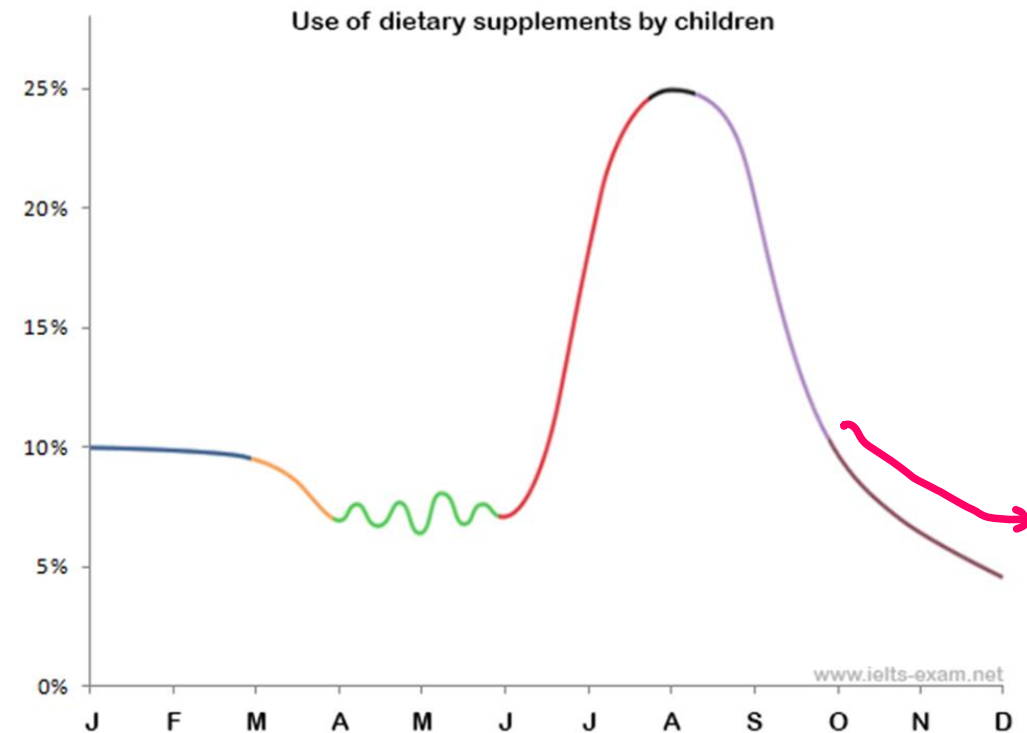
**fall (fell, fallen), decrease (-ed, -ed), drop (-ed, -ed)  
dramatic (dramatically), sharp (sharply), significant  
(significantly), rapid (rapidly)**

- Between August and October, this figure dropped dramatically to 11%.
- From August to October, there was a drop of 14% in the percentage of children taking dietary supplements.
- Between August and October, There was a considerable fall in the percentage of children using supplements.
- This was followed by a sharp drop of 14% over the next two months.
- Supplement use experienced a dramatic fall between August and October.



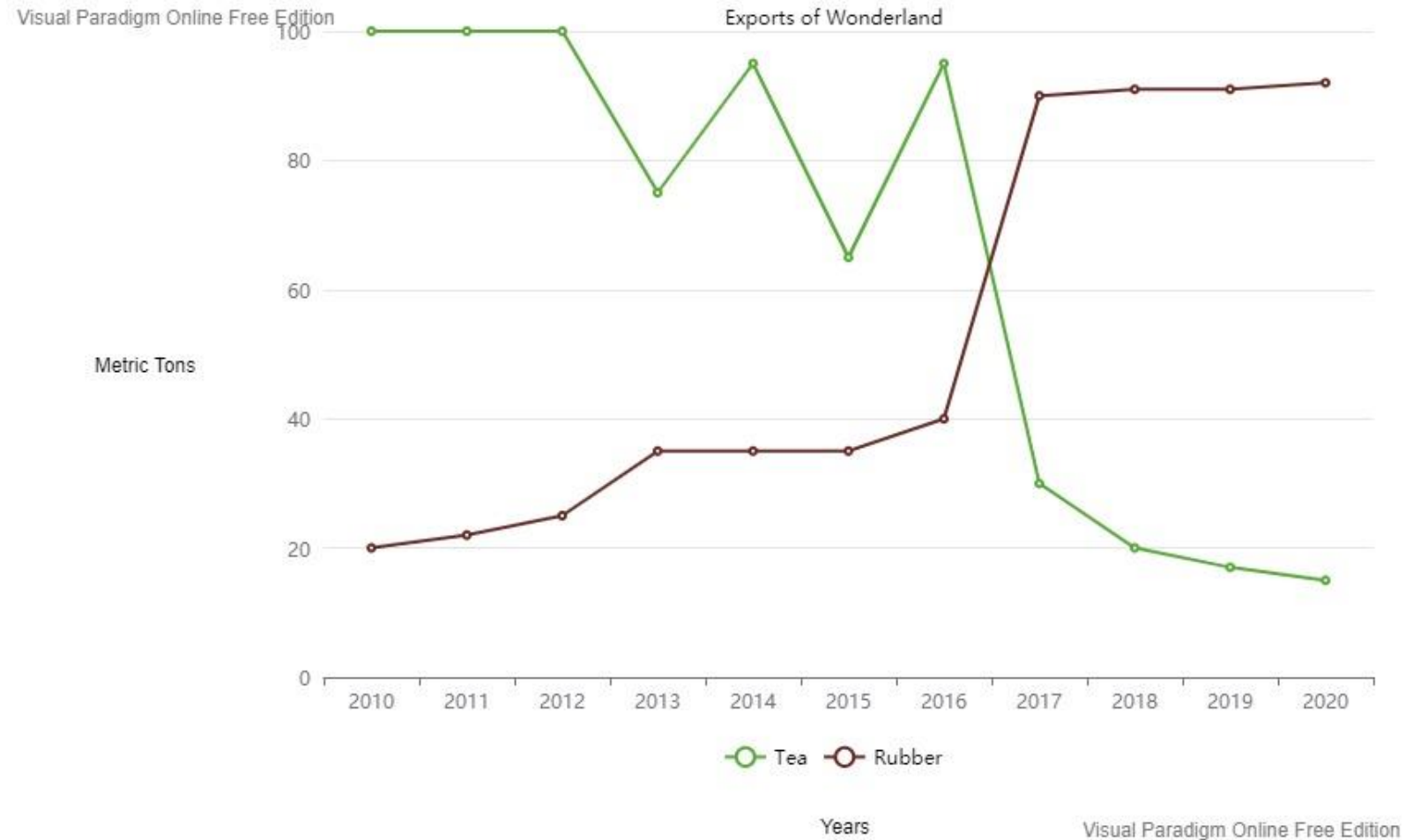
**fall (fell, fallen), decrease (-ed, -ed), drop (dropped, dropped), plunge (-ed, -ed), decline (-ed, -ed), reach (-ed, -ed) its lowest point**  
**slight (slightly), steady (steadily), gradual (gradually), gentle (gently), slow (slowly) downward trend**

- Between October and December, the decrease in the use of dietary supplements was at a much slower pace than in the previous two months.
- Supplement use continued to fall steadily over the next two months until it reached its lowest point in December.
- It fell to a low of only 5% in December.



# Activity

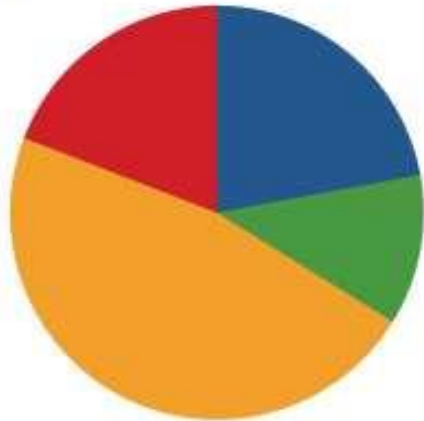
Describe the  
given line  
chart





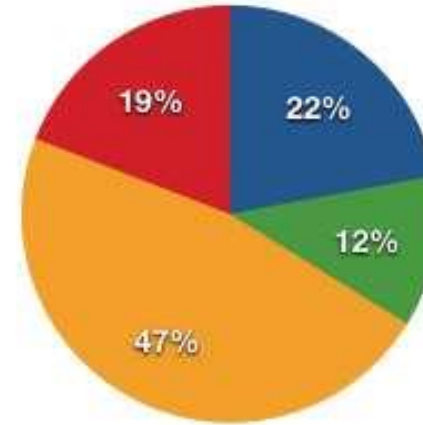
# Pie charts

How the British accessed the internet in 2010



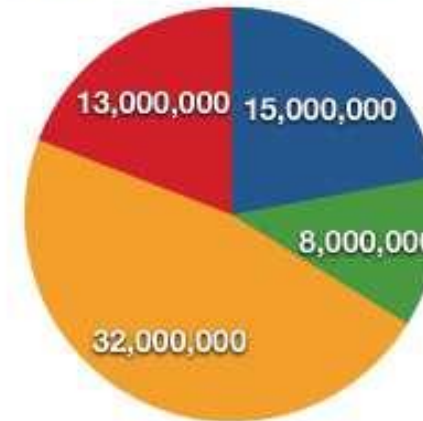
● mobile ● dial up ● cable ● no internet access

How the British accessed the internet in 2010



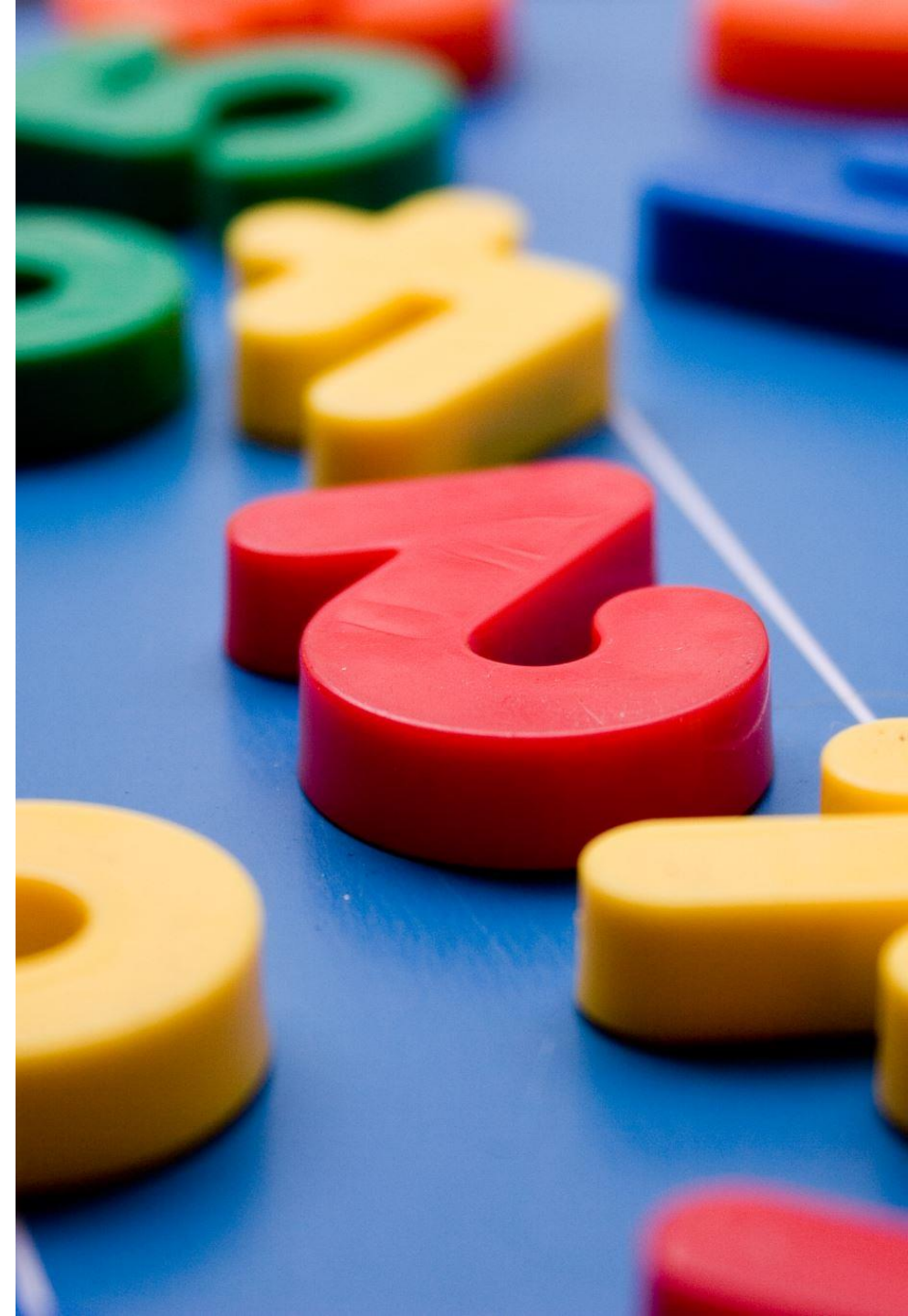
● mobile ● dial up ● cable ● no internet access

How the British accessed the internet in 2010



● mobile ● dial up ● cable ● no internet access

- The key language when you write about pie charts is proportions and percentages.
- Common phrases are "the proportion of..." or "the percentage of..."
- However, you can also use other words and fractions.
  - A large number of people
  - over a quarter of people
  - a small minority
  - A significant number of people
  - less than a fifth



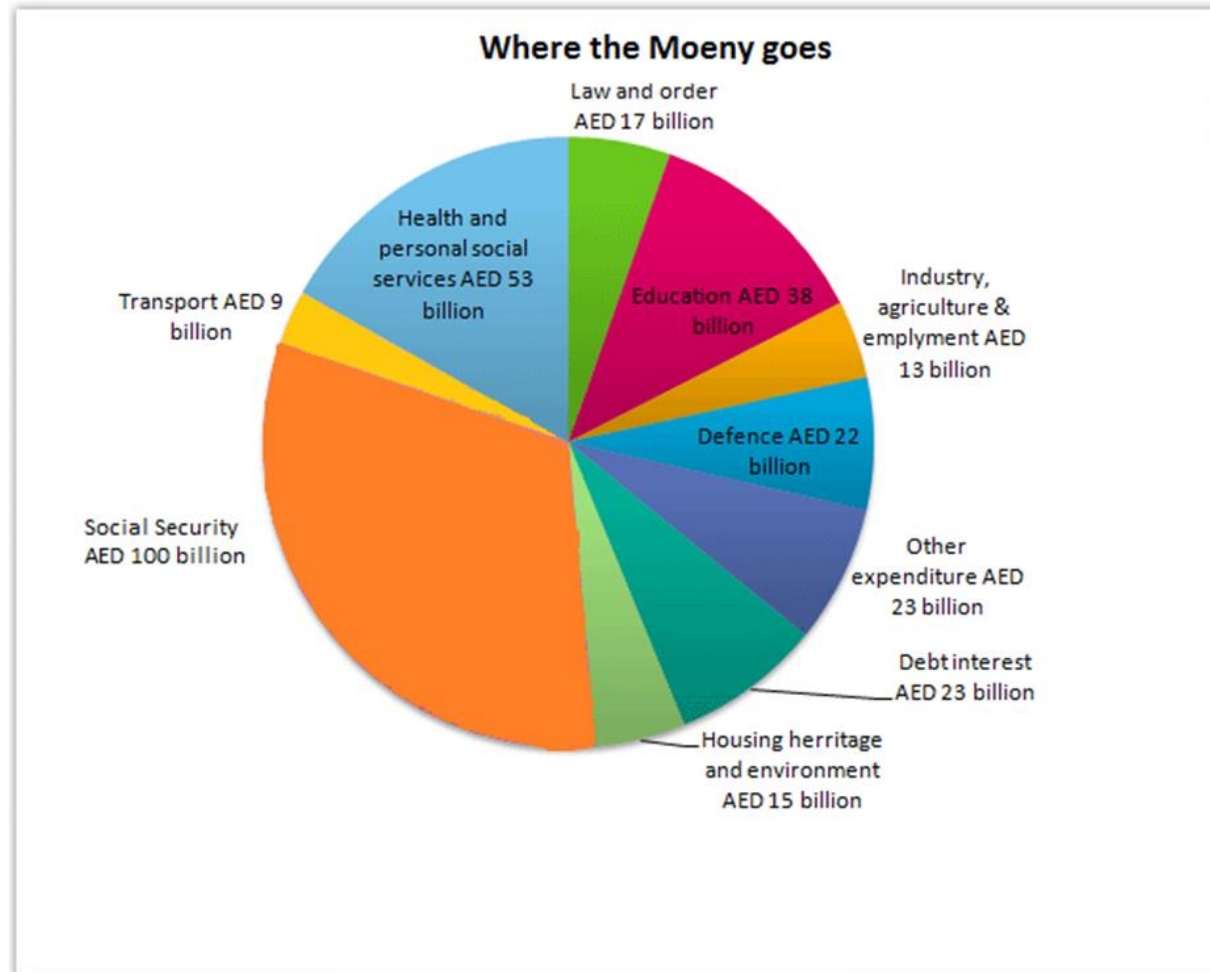
Percentage	Fraction
80%	four-fifths
75%	three-quarters
70%	seven in ten
65%	two-thirds
60%	three-fifths
55%	more than half
50%	half
45%	more than two fifths
40%	two-fifths
35%	more than a third
30%	less than a third
25%	a quarter
20%	a fifth
15%	less than a fifth
10%	one in ten
5%	one in twenty

Percentage	Qualifier
77%	<b>just over</b> three quarters
77%	<b>approximately</b> three quarters
49%	<b>just under</b> a half
49%	<b>nearly</b> a half
32%	<b>almost</b> a third

Percentage	Proportion/amount/number/ majority/minority	Fraction
66	A large proportion	Precisely two thirds
73	A significant majority	Approximately three quarters
25	A small number	Exactly a quarter
5	An insignificant amount	A small fraction
48	-	Almost a half
35	A good proportion	Just over a third
15	A small minority	

The pie chart gives information on UAE government spending in 2000. The total budget was AED 315 billion.

Summarize the information by selecting and reporting the main features, and make comparisons where relevant.



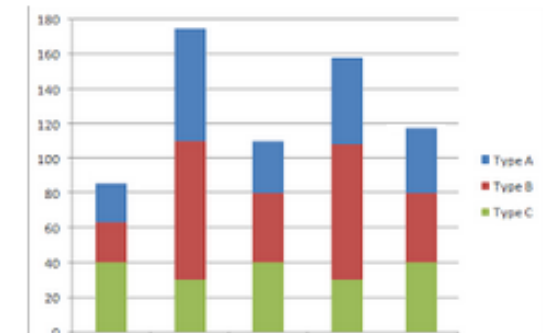
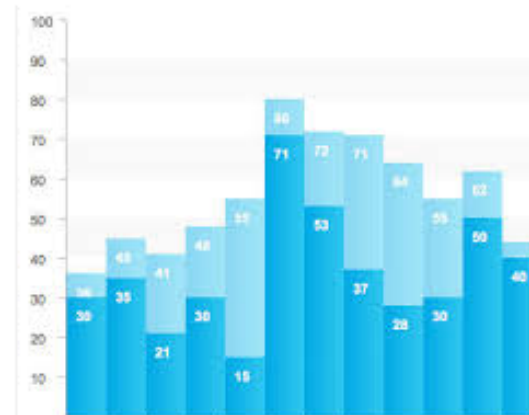
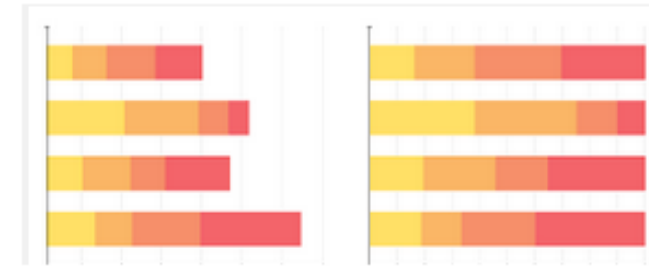
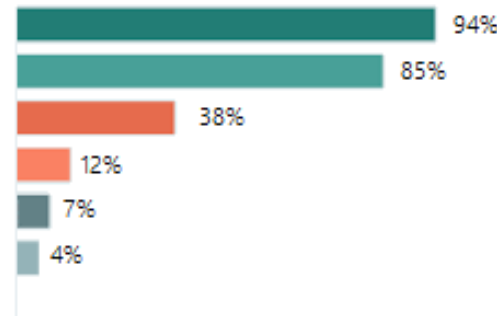
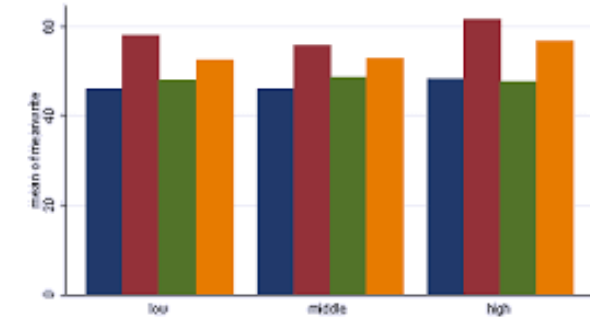
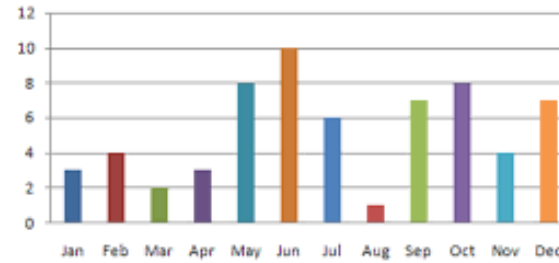
The given pie chart shows the UAE government's spending in different sectors for the year 2000. As is given in the presentation, the UAE government had AED 135 billion budget for the year 2000 and they used the highest amount in Social Security.

According to the pie chart, the UAE government spent AED 100 billion in social security from their total budget of AED 315. This single sector that cost the UAE government almost one-third of the total budget. This year the government's cost was 53 million on health and personal social services which was the second largest sector in terms of expenditure made by the UAE government in this year. 38 million AED was spent on education while 23 billion was spent both in debt and other expenditures. The government used 22 billion in Defense sector while 13 billion was spent for the industry, employment and agriculture sectors. The lowest amount of money went to the transport sector which was only 9 billion. Finally, 15 billion of the budget was spent on housing and environment.

In summary, UAE government's maximum spending went in social security and healthcare sectors while the least amounts were spent on transport, law and order, housing and industry/agriculture and employment sectors.

# Bar charts

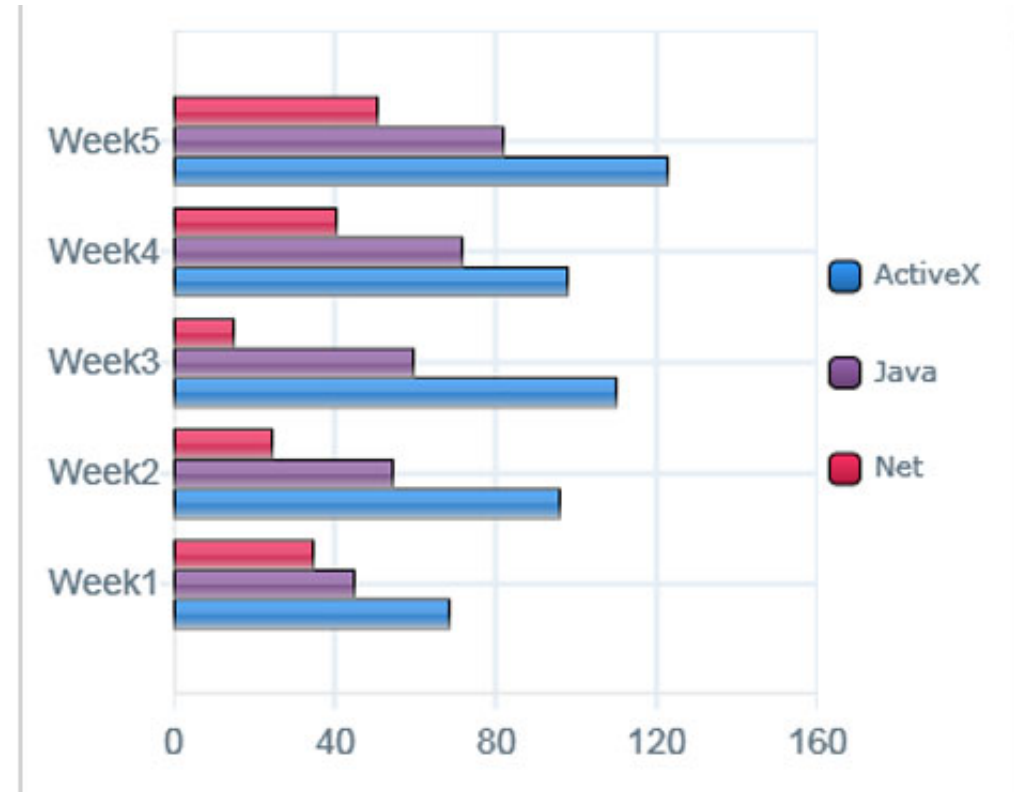
Contain either horizontal or vertical bars to present data comparison or contrast among categories or variables





Summarize the information by selecting and reporting the main features and make comparisons where relevant.

- The bar chart shows the number of times per week (in 1000s), over five weeks, that three computer packages were downloaded from the internet.





- The bar chart illustrates the download rate per week of ActiveX, Java and Net computer packages over a period of five weeks. It can clearly be seen that ActiveX was the most popular computer package to download, whilst Net was the least popular of the three.
- To begin, downloads of ActiveX and Java showed similar patterns, with both gradually increasing from week 1 to week 5. However, the purchases of Active X remained significantly higher than that of the other product over this time frame. In week 1, purchases of ActiveX stood at around 75,000, while those of Java were about 30,000 lower. With the exception of a slight fall in week 4, downloading of ActiveX kept increasing until it reached a peak in the final week of just over 120,000. Java downloads also increased at a steady rate, finishing the period at 80,000.
- The product that was downloaded the least was Net. This began at slightly under 40,000, and, in contrast to the other two products, fell over the next two weeks to reach a low of approximately 25,000. It then increased sharply over the following two weeks to finish at about 50,000, which was well below that of ActiveX.

# References

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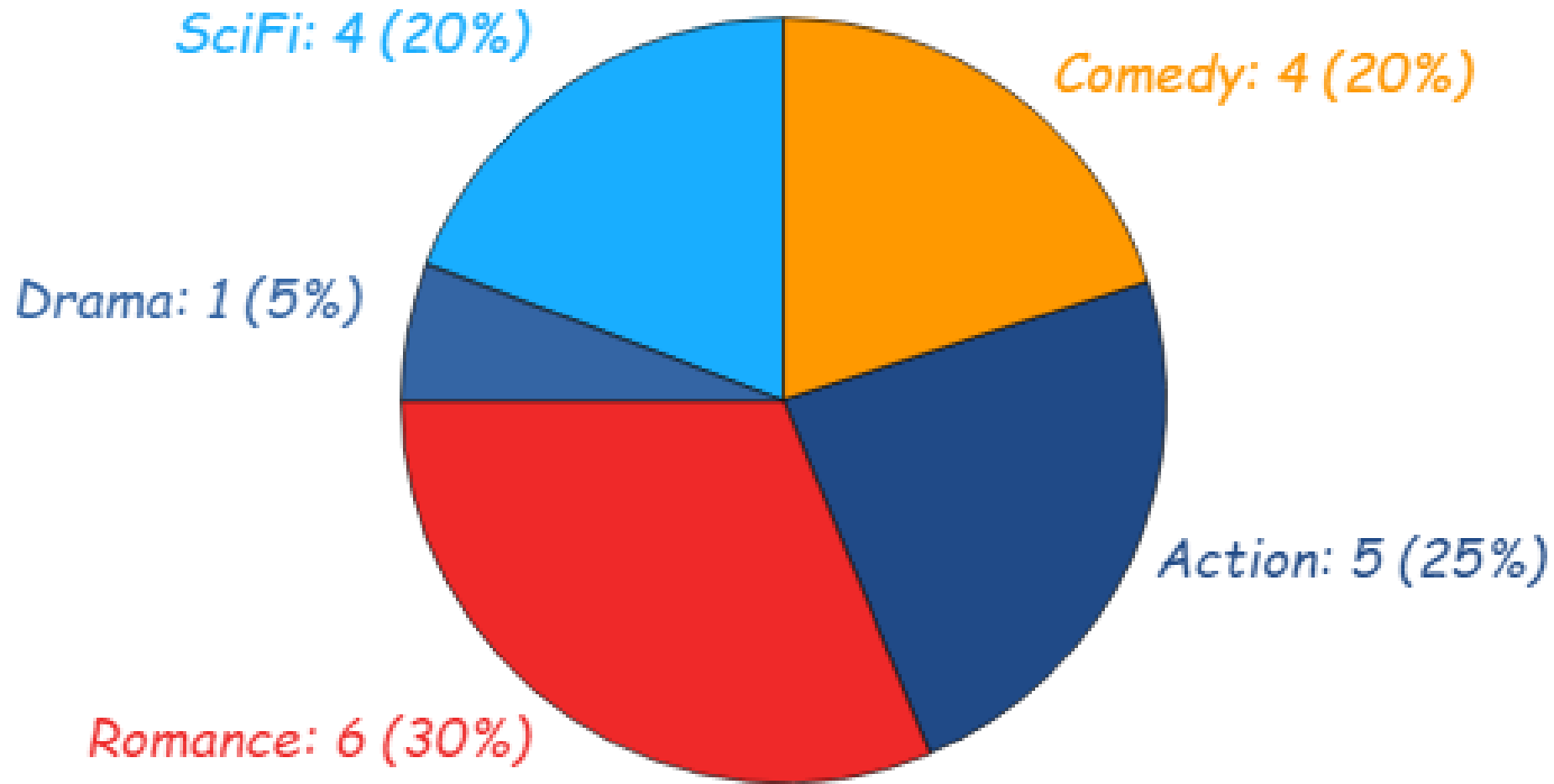
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**Thank  
You**



# *Favorite Type of Movie*



# The Online Sales of Smartphones, Laptops and Tablets in the First Quarter of 2019

