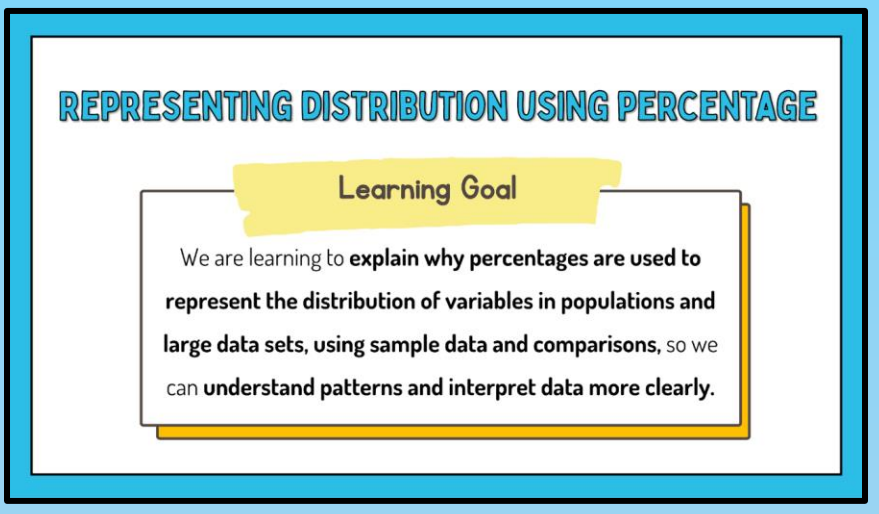
# Google Slides Lessons Preview

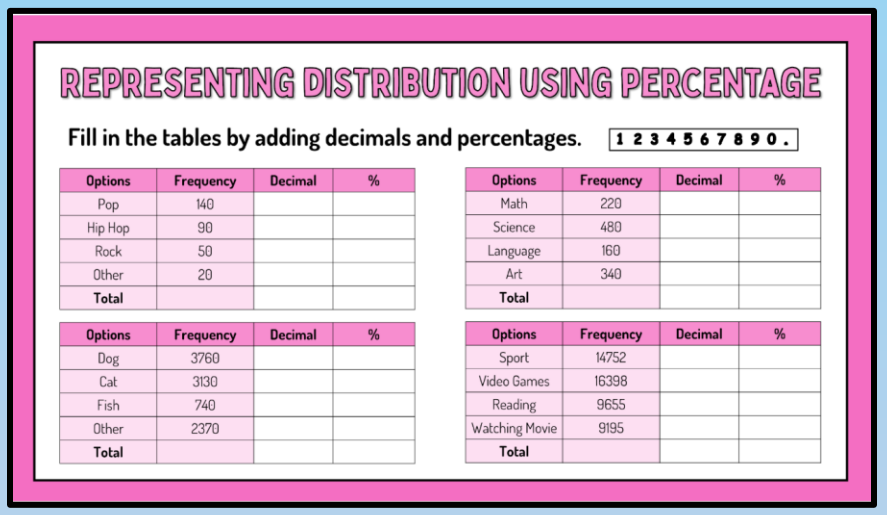
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# Ontario Math Curriculum
# Graphing And Probability – Grade 7

## 3-Part Lesson Format

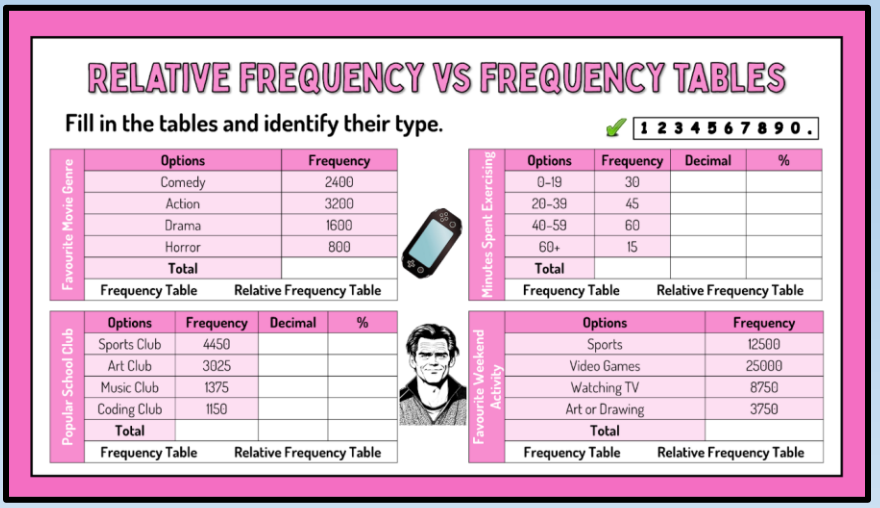
### Part 1 – Minds On!
- Learning Goals
- Discussion Questions
- Quotes
- And More!




### Part 2 – Action!
- Writing
- Matching
- Drag and Drop
- Drawing
- And More!

### Part 3 – Consolidation!
- Exit Cards
- Quizzes
- Reflection
- And More!



# Ontario Math Curriculum
# Graphing And Probability – Grade 7

## MODE



1234567890

**Answer the questions below.**

1) Ava tracked how many hours she spent studying over 15 days. Her study times (in hours) were: **6, 7, 8, 7, 9, 7, 8, 6, 7, 8, 9, 7, 6, 7, 8**
What number of hours did Ava study most often?

2) Students were asked to choose their favourite type of sport.
The results are shown below:
**1, 3, 2, 4, 2, 1, 3, 2, 2, 4, 3, 1, 2, 3, 2**
Which sport was most popular?

| | |
|---|---|
| Soccer | 1 |
| Basketball | 2 |
| Hockey | 3 |
| Track | 4 |

3) A teacher recorded the number of questions students got correct on a quiz:
**8, 9, 10, 8, 7, 9, 8, 10, 9, 8, 7, 8**
What score occurred most often?

## MEDIAN

- **Median** is the middle value in an **ordered data set**.
- It represents the **central position** of the data, not the average.
- The median is **resistant to outliers** (extremely large or small values).

**How to find the median?**

- **Step 1:** Arrange the numbers in order (smallest to largest).
- **Step 2:** Determine the total number of values (n).
  - ✓ If **n is odd** → The median is the middle number.
  - ✓ If **n is even** → Add the two middle numbers and divide by 2.

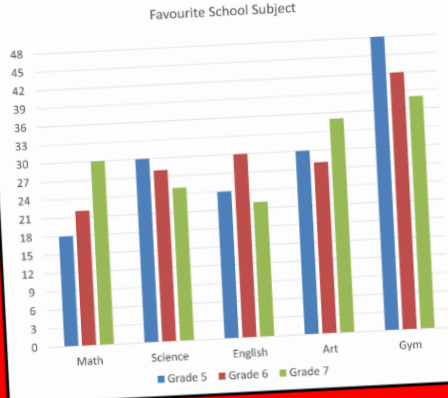


**Examples**

**Data set:** 12, 15, 9, 18, 14
**Ordered list:** 9, 12, 14, 15, 18
**Median = 14**

**Data Set:** 8, 10, 14, 30, 22, 18
**Ordered list:** 8, 10, 14, 18, 22, 30
**Middle numbers:** 14 & 18
**Median =** (14 + 18) / 2 = **16**

The students in Grade … school subject is their favourite. The results … shown in the multiple-bar graph below.




| Subject | # | % | # | | | |
|---|---|---|---|---|---|---|
| Math | 18/150 | 12 | | | | |
| Science | | | | | | |
| English | | | | | | |
| Art | 30/150 | 20 | | | | |
| Gym | | | | | | |
| **Total** | | | | | | |

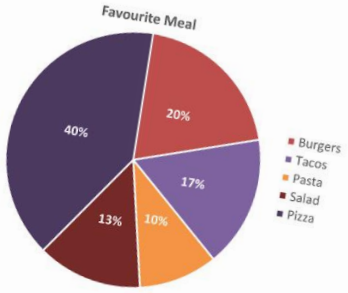
| | |
|---|---|
| 1) How many students in each grade were surveyed? | **Grade 5** |
| | **Grade 6** |
| | **Grade 7** |
| 2) How many votes did the most popular subject receive in total? | |

# Ontario Math Curriculum
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## INTERPRETING A CIRCLE GRAPH

Answer Page

A group of teens were asked to choose their **favourite meal**. The results are shown in the circle graph below.




Tacos | Pasta | Salad

Fill in the frequency table and answer the questions.

| | Burgers | Tacos | Pasta | Salad | Pizza |
|---|---|---|---|---|---|
| Votes | 6/30 | 5/30 | 3/30 | 4/30 | 12/30 |
| % | 20% | 17% | 10% | 13% | 40% |

1) Which meal is the **most popular** among the teens? — Pizza

2) Do **Tacos, Pasta, and Salad combined** make up more than half of the choices? — Yes / No

3) Which meal represents **one-fifth (20%)** of the choices? — Burgers

4) What **percentage of teens did NOT choose pizza**? — 60%

## INDEP…

A spinner has 6 equal sections labelled 1 to 6. Each number has … chance of being landed on.

**Find the probability of each sum when the spinner is spun twice.**

| # | Questions | Answer |
|---|---|---|
| 1 | What is the probability of spinning twice and getting a **sum of exactly 7**? | 6/36 |
| 2 | What is the probability of spinning twice and getting a **sum less than 6**? | 10/36 |
| 3 | What is the probability of spinning twice and getting a **sum greater than or equal to 10**? | 6/36 |

| + | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |

…can happen to how …

…vourable outcomes : Unfavourable outcomes

- Odds consider **all possible outcomes** by separating them into:
  - ✓ Outcomes we **want**
  - ✓ Outcomes we **do not want**
- These are called **complementary outcomes**.

**Examples:** If you roll a fair die:

- ✓ Probability of rolling a 3 = **1 out of 6**
- ✓ Ways it happens = 1
- ✓ Ways it does NOT happen = 5
- ➢ Odds in favour of rolling a 3 = 1 : 5

