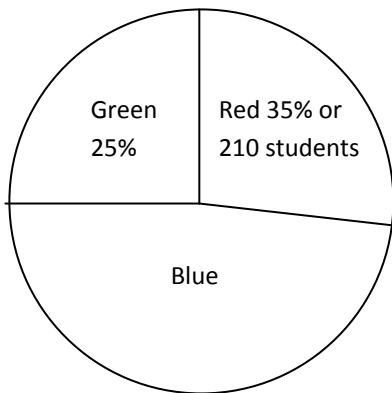


Circle Graphs

Long-Term Memory Review Review 1

1. When is a circle graph the most appropriate representation?
2. An angle whose vertex is at the center of the circle is a _____ angle.
3. The total measure of all central angles of a circle graph is _____ degrees.
4. The proportion to use to find the central angle of a circle graph is:
A) $\frac{\text{Percent}}{360} = \frac{\text{Angle}}{100}$ B) $\frac{\text{Percent}}{360} = \frac{100}{\text{Angle}}$ C) $\frac{\text{Percent}}{100} = \frac{360}{\text{Angle}}$ D) $\frac{\text{Percent}}{100} = \frac{\text{Angle}}{360}$
5. A pie is cut into 10 equal sized pieces. What is the measure of the central angle of each piece?
6. The graph below shows the results of a survey given to high school seniors. These seniors were asked to give their favorite color for a school t-shirt. If there were 600 students who voted, how many voted for the blue t-shirt? Specify both the percentage and the actual number that voted for each color.

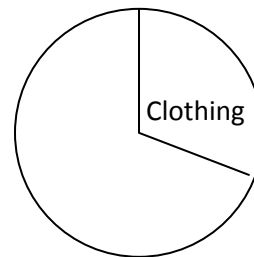


Circle Graphs

Long-Term Memory Review Review 2

- When is a circle graph the most appropriate representation for displaying data?
- One-half of a circle has a central angle of _____ degrees.
- A whole circle measures _____ degrees around (central angle).
- The proportion to use to find the central angle of a circle graph is:
 A) $\frac{\text{Percent}}{360} = \frac{\text{Angle}}{100}$ B) $\frac{\text{Percent}}{360} = \frac{100}{\text{Angle}}$ C) $\frac{\text{Percent}}{100} = \frac{360}{\text{Angle}}$ D) $\frac{\text{Percent}}{100} = \frac{\text{Angle}}{360}$
- A bicycle wheel has 45 spokes that are evenly distributed around the circular wheel. What is the measure of the central angle formed by two consecutive spokes?
- Mrs. Clark received his \$100 tax refund from the government. She used \$20 for food, \$30 for clothing, \$15 for entertainment, and the rest on miscellaneous items. Complete the table below and then draw and label an appropriate circle graph that would accompany this table.

Items of Purchase	Amount of Refund	Percent of Refund	Central Angle Measure
Food	\$20	20%	
Clothing			
Entertainment	\$15		54°
Miscellaneous		35%	
Total	<u>\$100</u>	<u>100%</u>	<u>360°</u>

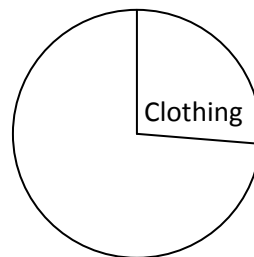


Circle Graphs

Long-Term Memory Review Review 3

- A circle graph shows:
 - Relationship between two quantities
 - A trend over time
 - Parts of 100%
 - The whole is equal to less than the sum of its parts
- An angle whose vertex is at the center of the circle is a _____ angle.
- A whole circle measures _____ degrees around (central angle).
- The proportion to use to find the central angle of a circle graph is:
 - $\frac{\text{Percent}}{360} = \frac{\text{Angle}}{100}$
 - $\frac{\text{Percent}}{360} = \frac{100}{\text{Angle}}$
 - $\frac{\text{Percent}}{100} = \frac{360}{\text{Angle}}$
 - $\frac{\text{Percent}}{100} = \frac{\text{Angle}}{360}$
- A pizza is cut into 8 equal sized pieces. What is the measure of the central angle of each piece?
- Mr. Clark received his \$720 tax refund from the government. He used \$324 for food, \$216 for clothing, \$144 for entertainment, and the rest on miscellaneous items. Complete the table below and then draw and label an appropriate circle graph that would accompany this table.

Items of Purchase	Amount of Refund	Percent of Refund	Central Angle Measure
Food	\$324	45%	
Clothing			
Entertainment	\$144		72°
Miscellaneous		5%	
Total	\$720	100%	360°

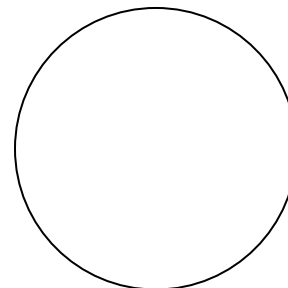


Circle Graphs

Long-Term Memory Review Review 4

1. When is a circle graph the most appropriate representation for displaying data?
2. An angle whose vertex is at the center of the circle is a _____ angle.
3. A whole circle measures _____ degrees around.
- 4) A pizza has been divided into four wedges. Jim gets 25%, John gets 10%, Wendi gets 30%, and Suzie gets 35%. Using proportions, find the central angle of each pieces of pizza. Give your answers in degrees.
5. What is the measure of the central angle formed by the two hands of the clock when it reads 3:30pm?
6. Mr. Aletti received a \$1080 check for his week worth of work as a construction framer. He used \$432 for rent, \$270 for clothing, \$162 to take a friend to dinner and the movies, and the rest for gasoline in his car. Complete the table and then draw and label an appropriate circle graph that would accompany this table.

Category	Amount Spent	Percent of Check	Central Angle
Food	\$432		
Clothing			90°
Entertainment			
Miscellaneous		20%	
Total	\$1080	100%	360°



Circle Graphs

Long-Term Memory Review

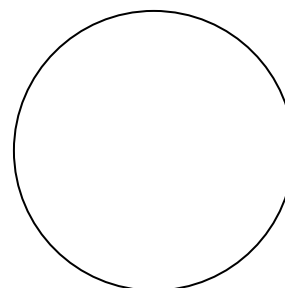
Quiz

- When is a circle graph the most appropriate representation for displaying data?
- An angle whose vertex is at the center of the circle is a _____ angle.
- A whole circle measures _____ degrees around.
- The proportion to use to find the central angle of a circle graph is:

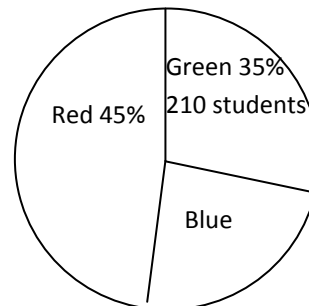
A) $\frac{\text{Percent}}{360} = \frac{\text{Angle}}{100}$ B) $\frac{\text{Percent}}{360} = \frac{100}{\text{Angle}}$ C) $\frac{\text{Percent}}{100} = \frac{360}{\text{Angle}}$ D) $\frac{\text{Percent}}{100} = \frac{\text{Angle}}{360}$

- Mr. Clark received his \$720 tax refund from the government. He used \$216 for food, \$324 for clothing, \$144 for entertainment, and the rest on miscellaneous items. Complete the table below and then draw and label an appropriate circle graph that would accompany this table.

Items of Purchase	Amount of Refund	Percent of Refund	Central Angle Measure
Food	\$324	45%	
Clothing			
Entertainment	\$144		72°
Miscellaneous		5%	
Total	\$720	100%	360°



- The graph below shows the results of a survey given to high school seniors. These seniors were asked to give their favorite color for a school t-shirt. If there were 600 students who voted, how many voted for the blue t-shirt? Specify both the percentage and the actual number that voted for blue.



- In general, which of the following does a circle graph show you?

A) Parts of 100% B) A trend over time C) Relationship between two quantities D) The whole is equal to less than the sum of its parts

Circle Graphs

Long-Term Memory Review

ANSWERS

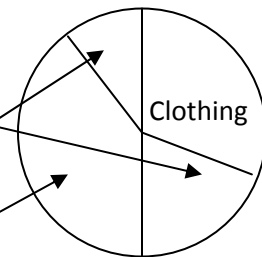
Review 1 – Answers

1. To represent parts of a whole.
2. central
3. 360
4. D
5. 36°

Review 2 Answers

1. When you wish to represent relative parts of a whole. (percentage, portion; etc)
2. 180
3. 360
4. C
5. 8°
- 6.

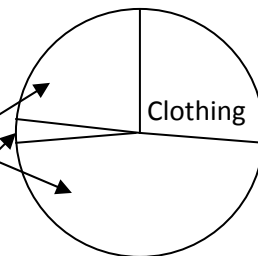
Items of Purchase	Amount of Refund	Percent of Refund	Central Angle Measure
Food	\$20	20%	72°
Clothing	\$30	30%	108°
Entertainment	\$15	15%	54°
Miscellaneous	\$35	35%	126°



Review 3 Answers

1. C
2. central
3. 360
4. D
5. 45°
- 6.

Items of Purchase	Amount of Refund	Percent of Refund	Central Angle Measure
Food	\$324	45%	162°
Clothing	\$216	30%	108°
Entertainment	\$144	20%	72°
Miscellaneous	\$36	5%	18°



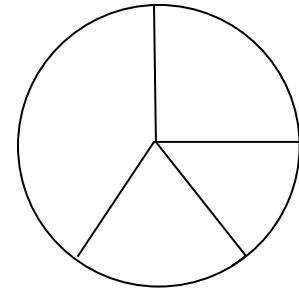
Circle Graphs

Long-Term Memory Review

Review 4 Answers

1. When you wish to represent relative parts of a whole. (percentage, portion; etc)
2. central
3. 360
4. 90° , 36° , 108° , 126°
5. 90°
- 6.

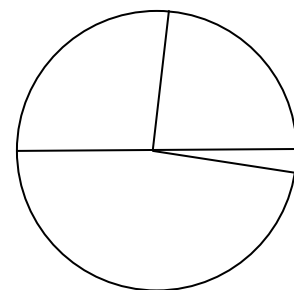
Category	Amount Spent	Percent of Check	Central Angle
Food	\$432	40%	144°
Clothing	\$270	25%	90°
Entertainment	\$162	15%	54°
Miscellaneous	\$216	20%	72°



Quiz – Answers

1. When you wish to represent relative parts of a whole. (percentage, portion; etc)
2. central
3. 360°
4. D
- 5.

Items of Purchase	Amount of Refund	Percent of Refund	Central Angle Measure
Food	\$324	45%	162°
Clothing	\$216	30%	108°
Entertainment	\$144	20%	72°
Miscellaneous	\$36	5%	18°



6. 20% (120 students) voted for the blue t-shirt.
7. A.