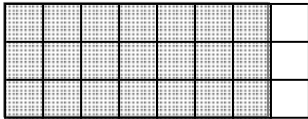


Percent and Circle Graphs: Practice Test

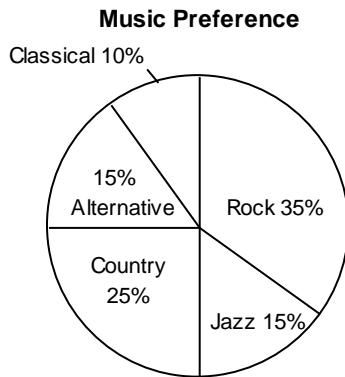
Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ___ 1. Write 6% as a decimal.
a. 0.06 b. 0.6 c. 6 d. 0.006
- ___ 2. Write $\frac{2}{5}$ as a percent.
a. 400% b. 20% c. 40% d. 200%
- ___ 3. What fraction of the diagram is shaded? Write the fraction as a percent.

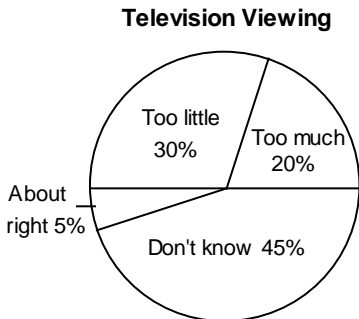


- a. $\frac{7}{8}$; 87.5% b. $\frac{7}{8}$; 29.2% c. $\frac{7}{12}$; 8.8% d. $\frac{7}{24}$; 29.2%
- ___ 4. Calculate 50% of 31.
a. 155 b. 0.81 c. 1.55 d. 15.5
- ___ 5. Everyone in Stuart's class has to do a science project.
Out of the 40 students, 60% have completed their projects.
How many students have completed their projects?
a. 64 students b. 20 students c. 16 students d. 24 students
- ___ 6. The circle graph shows the music preferences of a random sample of radio listeners. What percent of people surveyed prefer Jazz or Rock?



- a. 50% b. 40% c. 65% d. 70%

7. Students were asked whether they spend too much or too little time watching television. The circle graph shows the responses of 120 students. How many students thought they watched too little television?



- a. 84 students b. 24 students c. 6 students d. 36 students
8. This table shows the number of students who attended the last basketball game. The data are displayed in a circle graph. What percent of the graph represents the 6th graders?

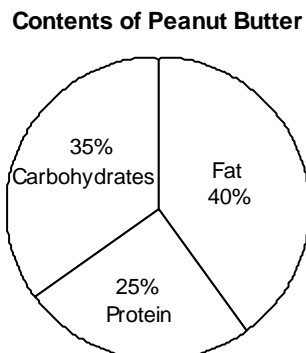
Grade	Number of Students
6	120
7	140
8	220

- a. 20% b. 18% c. 75% d. 25%

Short Answer

9. The original price of a pair of running shoes was \$95. They were on sale at 25% off, but the marked price was \$73.25. Is this the correct price? Explain.

10. The circle graph shows the contents of one brand of peanut butter. How much protein is in 838 g of peanut butter?



11. This table shows the results of a survey on how students get to school.
A circle graph is to be used to display the data.
Calculate the sector angle, to the nearest degree, for each method of transportation.

Transportation	Number of Students
Bus	39
Bike	12
Walk	25
Car	24

12. The table shows the number of 6th grade students who prefer each kind of juice at lunch time.
Draw a circle graph to display the information.

6th Grade Juice Choices	
Grape Juice	8
Orange Juice	6
Fruit Punch	6
Apple Juice	20

Problem

13. The food Caitlin and Rory order in a restaurant cost \$82.
Tax of 9% was added, then Rory added a tip of 15% of the total.
What was the final cost of the meal?

Percent and Circle Graphs: Practice Test

Answer Section

MULTIPLE CHOICE

- ANS: A PTS: 1 DIF: Easy
REF: 3.7 Relating Fractions, Decimals, and Percents LOC: 7.N3
TOP: Number KEY: Conceptual Understanding
- ANS: C PTS: 1 DIF: Easy
REF: 3.7 Relating Fractions, Decimals, and Percents LOC: 7.N3
TOP: Number KEY: Procedural Knowledge
- ANS: A PTS: 1 DIF: Moderate
REF: 3.7 Relating Fractions, Decimals, and Percents LOC: 7.N3
TOP: Number KEY: Procedural Knowledge
- ANS: D PTS: 1 DIF: Moderate REF: 3.8 Solving Percent Problems
LOC: 7.N3 TOP: Number KEY: Procedural Knowledge
- ANS: D PTS: 1 DIF: Moderate REF: 3.8 Solving Percent Problems
LOC: 7.N3 TOP: Number KEY: Problem-solving Skills
- ANS: A PTS: 1 DIF: Easy REF: 4.6 Interpreting Circle Graphs
LOC: 7.SP3 TOP: Statistics and Probability (Data Analysis)
KEY: Conceptual Understanding
- ANS: D PTS: 1 DIF: Moderate REF: 4.6 Interpreting Circle Graphs
LOC: 7.SP3 TOP: Statistics and Probability (Data Analysis)
KEY: Procedural Knowledge
- ANS: D PTS: 1 DIF: Easy REF: 4.7 Drawing Circle Graphs
LOC: 7.N3|7.SP3 TOP: Number | Statistics and Probability (Data Analysis)
KEY: Procedural Knowledge

SHORT ANSWER

- ANS:
No, \$73.25 is not the correct price.
The correct price is \$71.25.

PTS: 1 DIF: Difficult REF: 3.8 Solving Percent Problems
LOC: 7.N3 TOP: Number KEY: Problem-solving Skills
- ANS:
209.5 g

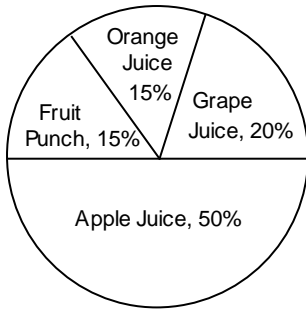
PTS: 1 DIF: Moderate REF: 4.6 Interpreting Circle Graphs
LOC: 7.SP3 TOP: Statistics and Probability (Data Analysis)
KEY: Procedural Knowledge
- ANS:
Bus: 140°
Bike: 43°
Walk: 90°

Car: 86°

PTS: 1 DIF: Easy REF: 4.7 Drawing Circle Graphs
LOC: 7.N3|7.SP3 TOP: Number | Statistics and Probability (Data Analysis)
KEY: Procedural Knowledge

12. ANS:

6th Grade Juice Choices



PTS: 1 DIF: Moderate REF: 4.7 Drawing Circle Graphs
LOC: 7.N3|7.SP3 TOP: Number | Statistics and Probability (Data Analysis)
KEY: Communication

PROBLEM

13. ANS:

Cost + tax: $\$52 + 0.08 \times \$52 = \$56.16$
Total cost: $\$56.16 + 0.20 \times \$56.16 = \$67.39$
The total cost of the meal was \$67.39.

PTS: 1 DIF: Difficult REF: 3.8 Solving Percent Problems
LOC: 7.N3 TOP: Number KEY: Problem-solving Skills