

Final Exam Review - Unit 7**Multiple Choice**

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

- _____ 1. Dr. Shaban measured the height of his daughter every year from her birth to age 14.
To see the trend of growth in height, which type of graph would be appropriate to display the data?
a. Pictograph b. Line graph c. Bar graph d. Circle graph
- _____ 2. This table shows the number of students participating in the school recycling program over 5 years.

Year	2004	2005	2006	2007	2008
Number of Students	52	73	87	103	121

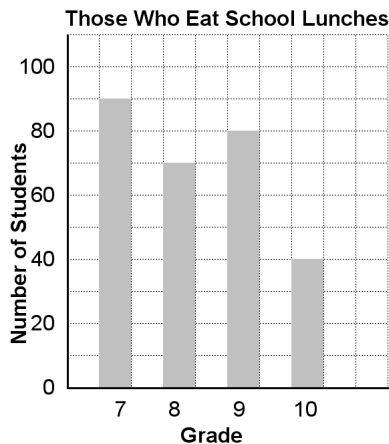
Which type of graph would you use if you want to look for a trend?

- a. Circle graph b. Bar graph c. Line graph d. Pictograph

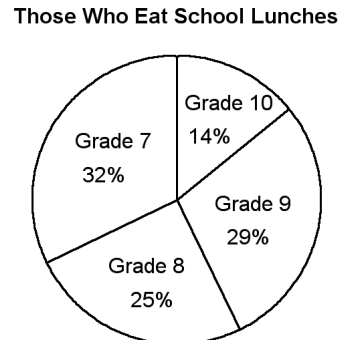
Students Who Eat School Lunches

These 4 graphs display the same data.

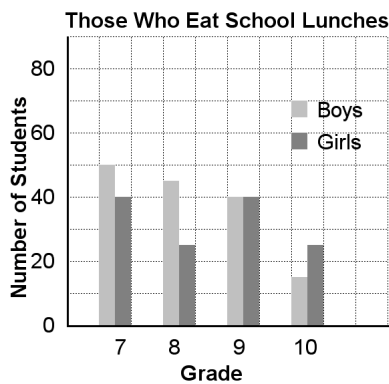
Graph A



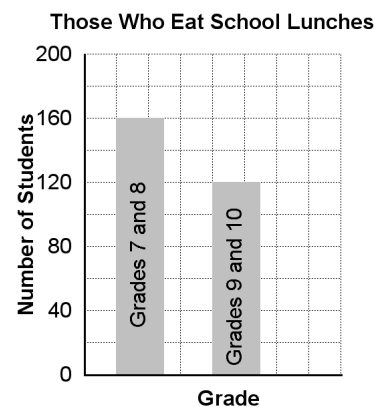
Graph B



Graph C



Graph D



- _____ 3. Use the 4 School Lunch graphs above.

Which type of graph is most appropriate for finding the number of Grade 9 students who eat school lunches?

- a. Graph A b. Graph B c. Graph C d. Graph D

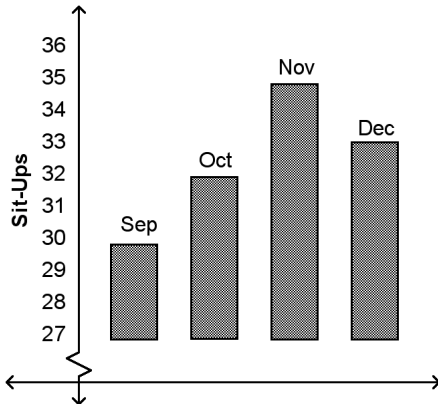
- _____ 4. Use the 4 School Lunch graphs above.

Which type of graph is most appropriate for finding the total number of students who eat school lunches?

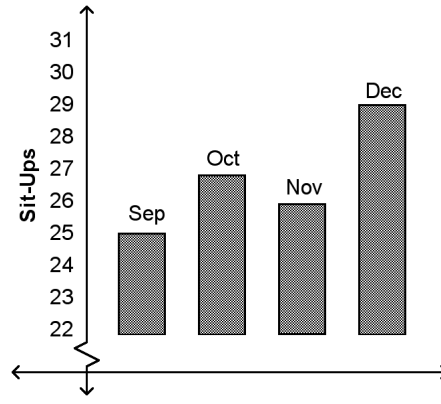
- a. Graph A b. Graph B c. Graph C d. Graph D

5. Which graph suggests that the number of sit-ups Ray did in November was more than double the number of sit-ups he did in September?

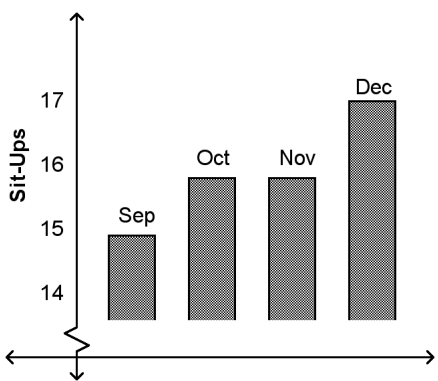
a.



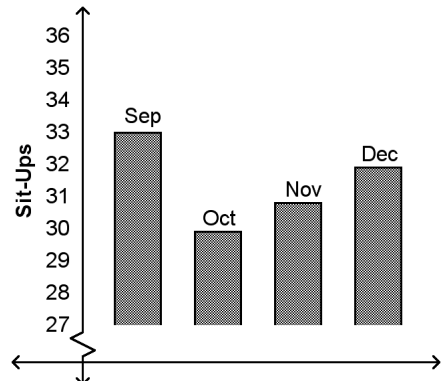
c.



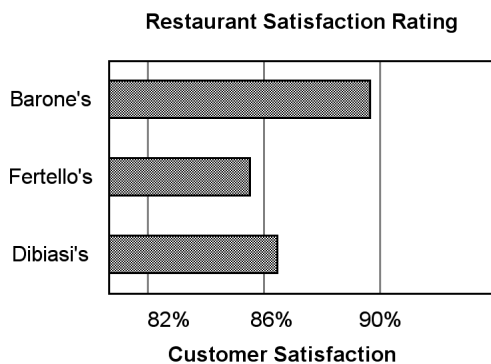
b.



d.



6. Barone's Italian Restaurant advertises that its customers are happier than customers of its competitors. The claim is based on the results of a survey displayed in this graph.



Is the graph misleading? If your answer is yes, explain why it is misleading.

- Yes, not enough restaurants were included in the survey.
- Yes, the use of percent exaggerates the difference in the rating.
- Yes, Barone's rating looks better than it really is because the graph does not start at 0.
- No, the graph is not misleading.

Name: _____

ID: A

- _____ 7. Find the number of possible outcomes if you choose 1 of 3 kinds of fruit and 1 of 5 kinds of vegetables.
a. 19 b. 8 c. 15 d. 13
- _____ 8. A coin is tossed 4 times. What is the probability of tossing 4 tails?
a. 2 b. $\frac{1}{16}$ c. $\frac{1}{32}$ d. $\frac{1}{6}$
- _____ 9. A red die, a blue die, and a green die are rolled. Each is a regular 6-sided die labelled 1 to 6.
What is the probability of rolling an even number on each die?
a. $\frac{1}{6}$ b. $\frac{1}{216}$ c. $\frac{1}{2}$ d. $\frac{1}{8}$
- _____ 10. A three letter code is made using the letters *a, b, c, d, e*. Each letter may be used more than once.
How many different codes are possible?
a. 125 b. 27 c. 60 d. 15

Final Exam Review - Unit 7**Answer Section****MULTIPLE CHOICE**

1. ANS: B PTS: 1 DIF: Easy
REF: 7.1 Choosing an Appropriate Graph LOC: 8.SP1
TOP: Statistics and Probability (Data Analysis) KEY: Conceptual Understanding
2. ANS: C PTS: 1 DIF: Moderate
REF: 7.1 Choosing an Appropriate Graph LOC: 8.SP1
TOP: Statistics and Probability (Data Analysis) KEY: Conceptual Understanding
3. ANS: A PTS: 1 DIF: Moderate
REF: 7.1 Choosing an Appropriate Graph LOC: 8.SP1
TOP: Statistics and Probability (Data Analysis) KEY: Conceptual Understanding
4. ANS: D PTS: 1 DIF: Moderate
REF: 7.1 Choosing an Appropriate Graph LOC: 8.SP1
TOP: Statistics and Probability (Data Analysis) KEY: Conceptual Understanding
5. ANS: A PTS: 1 DIF: Moderate REF: 7.2 Misrepresenting Data
LOC: 8.SP1 TOP: Statistics and Probability (Data Analysis)
KEY: Conceptual Understanding
6. ANS: C PTS: 1 DIF: Moderate REF: 7.2 Misrepresenting Data
LOC: 8.SP1 TOP: Statistics and Probability (Data Analysis)
KEY: Conceptual Understanding
7. ANS: C PTS: 1 DIF: Easy
REF: 7.3 Probability of Independent Events LOC: 8.SP2
TOP: Statistics and Probability (Chance and Uncertainty) KEY: Conceptual Understanding
8. ANS: B PTS: 1 DIF: Easy
REF: 7.4 Solving Problems Involving Independent Events LOC: 8.SP2
TOP: Statistics and Probability (Chance and Uncertainty) KEY: Conceptual Understanding
9. ANS: D PTS: 1 DIF: Easy
REF: 7.4 Solving Problems Involving Independent Events LOC: 8.SP2
TOP: Statistics and Probability (Chance and Uncertainty) KEY: Conceptual Understanding
10. ANS: A PTS: 1 DIF: Moderate
REF: 7.4 Solving Problems Involving Independent Events LOC: 8.SP2
TOP: Statistics and Probability (Chance and Uncertainty) KEY: Conceptual Understanding