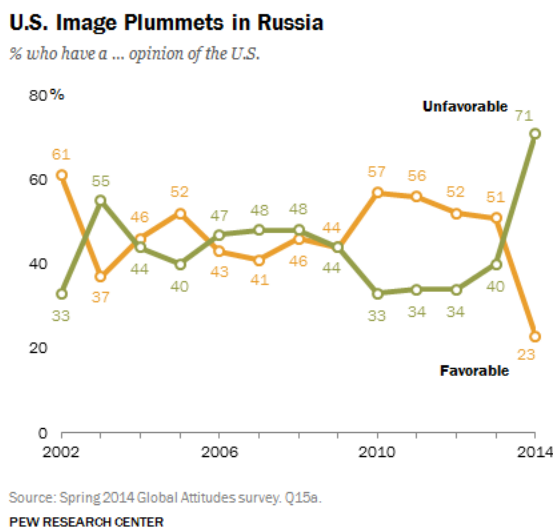## 3.4 Line Graphs

In this worksheet, we will interpret data using line graphs. If you would like further explanation before attempting these problems, links to video descriptions can be found at the end of this worksheet.

   The line graph below shows the United States' image in Russia by plotting the percent of Russians that have a favorably opinion of the United States and percent of Russians that have an unfavorable opinion of the United States. Data and plot are both from the Pew Research Center. Choose the best answer for the following questions based on the information from this line graph.

1 During which year did Russians have the most favorable opinion of the United States?

   (a) 2002

   (b) 2007

   (c) 2010

   (d) 2014

2 What percent of Russians had a more favorable opinion of the United States in 2010 than in 2014?

   (a) 38

   (b) 34

   (c) 10

   (d) 24

3 Between what two years did Russia's favorable opinion of the United States drop the most?

   (a) 2009-2010

   (b) 2005-2006

   (c) 2013-2014

   (d) 2002-2003
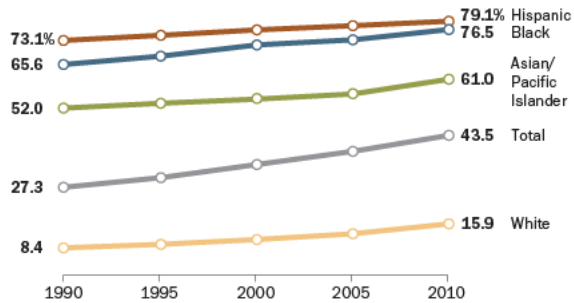
The line graph below from the Pew Research Center show the percent of students enrolled in public schools that attend a public school where minorities make up at least half the student population. Choose the best answer to the

Enrollment at Majority-Minority Schools

% attending public schools where minorities make up at least half of all students

79.1%	Hispanic
76.5	Black
73.1%	
65.6	
61.0	Asian/ Pacific Islander
52.0	
43.5	Total
27.3	
15.9	White
8.4	

1990   1995   2000   2005   2010

Source: U.S. Department of Education, National Center for Education Statistics, Common Core of Data. Note: Blacks, whites and Asians/Pacific Islanders include only non-Hispanics. Hispanics are of any race.

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following questions based on the line graph below.

4 In 2010, about how many times more hispanic students than white students attended a public school with minorities make up at least half the student population?

  (a) 9

  (b) 2

  (c) 3

  (d) 5

5 Which group had a lower percent of students than the total number of students attending a public school with minorities make up at least half the student population?

  (a) white

  (b) asian/pacific islander

  (c) black

  (d) hispanic

6 Which group had the greatest increase in percent enrolled in a public school where minorities make up at least half the population from 1990 to 2010?

  (a) white

  (b) asian/pacific islander

  (c) black

  (d) hispanic

Additional Resources:

- Here you'll find an explanation of how to interpret line graphs. `http://youtu.be/vMEXZvcubqg`

- Here you'll find a solution to example one, problems 1-3. `http://youtu.be/6XH2Zo3aT-E`

- Here you'll find additional info about line graphs: `https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/cc-6th-line-picto-graphs/v/u08-l1-t2-we2-reading-line-graphs`