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7.4.6 Homework Set

1. For each diagram, decide if $y$ is an increase or a decrease relative to $x$. Then determine the percent increase or decrease.

A


B


Date $\qquad$
2. Draw diagrams to represent the following situations.
A. The amount of flour that the bakery used this month was a $40 \%$ increase relative to last month.
B. The amount of milk that the bakery used this month was a $75 \%$ decrease relative to last month.
3. Write each percent increase or decrease as a percentage of the initial amount. The first one is done for you.
A. This year, there was $40 \%$ more snow than last year.

The amount of snow this year is $140 \%$ of the amount of snow last year.
B. This year, there were $25 \%$ fewer sunny days than last year.
C. Compared to last month, there was a $50 \%$ increase in the number of houses sold this month.
D. The runner's time to complete the marathon was a $10 \%$ less than the time to complete the last marathon.
4. The graph shows the relationship between the diameter and the circumference of a circle with the point $(1, \pi)$ shown. Find 3 more points that are on the line.
(from Unit 3, Lesson 3)

5. Priya bought $x$ grams of flour. Clare bought $\frac{3}{8}$ more than that. Select all equations that represent the relationship between the amount of flour that Priya bought, $x$, and the amount of flour that Clare bought, $y$.
A. $y=\frac{3}{8} x$
B. $y=\frac{5}{8} x$
C. $y=x+\frac{3}{8} x$
D. $y=x-\frac{3}{8} x$
E. $y=\frac{11}{8} x$

