Adding and Subtracting Fractions Word Problems

The staff at Johanna’s Bakery is preparing baked goods for a busy Saturday afternoon.

1.) Johanna has $4 \frac{1}{2}$ sacks of sugar in her pantry and she is expecting another $5 \frac{1}{2}$ sacks to be delivered. After the delivery arrives, how many sacks of sugar will Johanna have?

2.) There are 12 trays of vanilla cupcakes available for sale. If one customer purchases $1 \frac{5}{8}$ trays of cupcakes and another customer purchases $3 \frac{1}{8}$ trays of cupcakes, how many trays of vanilla cupcakes are still available?

3.) Johanna has $5 \frac{3}{4}$ boxes of eggs in her refrigerator. If her assistant, Roxanne, takes $\frac{1}{4}$ boxes of eggs to make brownies and her other assistant, DJ, takes $1 \frac{1}{4}$ boxes of eggs to make bread, how many boxes of eggs were left over?

4.) Johanna’s bakery has two identical display cases for her famous chocolate chip cookies. By mid-afternoon, the first display case is only $\frac{5}{9}$ filled with cookies and the other display case is only $\frac{2}{9}$ filled with cookies. What fraction of the display cases are now empty?
ANSWER KEY

1.) Johanna will have 10 sacks of sugar.

2.) \(\frac{7}{8} \text{ or } \frac{71}{4}\) trays of cupcakes are left over.

3.) \(4\frac{1}{4}\) boxes of eggs are left over.

4.) \(1\frac{2}{9}\) of the display cases are empty.