

Directions: Solve the following problems.

1. $1_4 + 1_4 =$ _____

2. $10_4 - 2_4 =$ _____

3.
$$\begin{array}{r} 32_4 \\ - 11_4 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 20_4 \\ + 12_4 \\ \hline \end{array}$$

5. $101_4 + 33_4 =$ _____

6. $301_4 - 21_4 =$ _____

7.
$$\begin{array}{r} 1000_4 \\ - 132_4 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 321_4 \\ + 112_4 \\ \hline \end{array}$$

9. Amy, Cindy, and Susan went to the Teacher Store. Amy and Cindy each purchased 23_4 stickers. Susan purchased some more stickers. All teachers then had 202_4 stickers. How many stickers did Susan purchase? How many does Kim need to purchase if they all want to have a total of 331_4 stickers?

10. Okrika made 211_4 cookies. Helen, Laura, and Marie, each ate 3_4 cookies. How many cookies were left?