

colors of cloth Brenda will use to make one tree costume.

3 5/8 yards brown cloth

2 1/2 yards orange cloth

2/3 yard yellow cloth

34

What is the difference, in yards, between the amount of orange cloth and the amount of brown cloth that Brenda will use to make one tree costume? Show or explain how you got your answer.

Calculations:

$$\begin{array}{r} 3\frac{5}{8} \\ -2\frac{1}{2} \\ \hline 1\frac{1}{8} \end{array}$$

1 1/8 yards of cloth

Explain. First I took 3 5/8 and 2 1/2 and set up the problem. Then I made 1/2 into 4/8 and subtracted 4/8 from 5/8 and 2 from 3 to

Brenda plans to use brown cloth for the trunk and branches of the tree, and orange and yellow cloth for the leaves.

What is the total amount of cloth, in yards, Brenda will use to make the leaves of one tree costume? Show or explain how you got your answer.

Calculations:

$$\begin{array}{r} 2\frac{1}{2} \\ +2\frac{1}{3} \\ \hline 2\frac{7}{6} = 3\frac{1}{6} \end{array}$$

3 1/6 yards of cloth

Explain. First I figured out that I was adding and set up a problem. Then I found equivalent fractions for 1/2 and 2/3 with the same denominator. Then I added 3/6 and 4/6 to get 7/6 and added the whole. Then I reduced it to 3 and 1/6 yards

Brenda wants to make two tree costumes.

What is the total amount of cloth, in yards, Brenda will use to make two tree costumes? Show or explain how you got your answer.

Calculations:

$$\begin{array}{r} 2\frac{1}{2} \\ 2\frac{1}{3} \\ +3\frac{2}{3} \\ \hline 5\frac{43}{24} \\ +6\frac{19}{24} \\ \hline 12\frac{38}{24} = 13\frac{14}{24} \\ = 13\frac{7}{12} \end{array}$$

13 7/12 yards of cloth

Explain. First I added up 3 5/8, 2/3 and 2 1/2 to get 5 and 43/24 which was improper so I changed it to 6 and 19/24. Then I added 6 19/24 with itself to get 12 and 38/24. I finally changed the improper fraction to 13 and 14/24 which I reduced to 13 and 7/12 as my final answer.

Brenda is making tree costumes for a play. The list below shows the amounts of the different colors of cloth Brenda will use to make one tree costume.

- 3 $\frac{5}{8}$ yards brown cloth
- 2 $\frac{1}{2}$ yards orange cloth
- $\frac{2}{3}$ yard yellow cloth

What is the difference, in yards, between the amount of orange cloth and the amount of brown cloth that Brenda will use to make one tree costume? Show or explain how you got your answer.

$$\begin{array}{r} 3\frac{5}{8} \\ - 2\frac{1}{2} \\ \hline 1\frac{1}{8} \end{array}$$

$1\frac{1}{8}$ yards

Explain my answer

For my answer, I got $1\frac{1}{8}$ yard. I got my answer by first reading that I had to find the difference between brown and orange. I knew brown was greater, so I knew I would subtract orange from brown. Then I changed yellow to $2\frac{4}{8}$. After I subtracted both of the fractions to get $1\frac{1}{8}$.

Brenda plans to use brown cloth for the trunk and branches of the tree, and orange and yellow cloth for the leaves.

What is the total amount of cloth, in yards, Brenda will use to make the leaves of one tree costume? Show or explain how you got your answer.

$$\begin{array}{r} 2\frac{1}{2} \\ + \frac{2}{3} \\ \hline 2\frac{7}{6} = 3\frac{1}{6} \end{array}$$

$3\frac{1}{6}$ yards

Explain my answer

For my answer, I got $3\frac{1}{6}$. First, to get my answer I knew I was adding orange and yellow. So I was adding $2\frac{1}{2}$ and $\frac{2}{3}$. Then I changed $2\frac{1}{2}$ to $2\frac{2}{3}$ and $\frac{2}{3}$ to $\frac{4}{6}$. After I did that, I added $2\frac{2}{3}$ and $2\frac{2}{3}$ to get $2\frac{7}{6}$. But I knew I wasn't done. I knew that $2\frac{7}{6}$ was an improper fraction. So I did $7-6$ and got 1. After I did $1+2$ and got 3. So I knew my answer was $3\frac{1}{6}$ yards.

Brenda wants to make two tree costumes.

What is the total amount of cloth, in yards, Brenda will use to make two tree costumes? Show or explain how you got your answer.

$$\begin{array}{r} 3\frac{5}{8} \\ 2\frac{1}{2} \\ + \frac{2}{3} \\ \hline 5\frac{43}{24} = 6\frac{19}{24} \end{array}$$

$13\frac{7}{12}$ yards

Explain my answer

For my answer, I got $13\frac{7}{12}$. First, I knew I was going to add and then multiply by 2. So I added $3\frac{5}{8}$, $2\frac{1}{2}$, and $\frac{2}{3}$ yards. Then I got $5\frac{43}{24}$. I knew that it was improper. So I subtracted 43 and 24 to get $\frac{19}{24}$. Then I did $5+1$ and got 6. So then my answer for that was $6\frac{19}{24}$. After I did $6\frac{19}{24} + 6\frac{19}{24}$. So then I got $12\frac{38}{24}$. Then I realized it was improper again. So, then I made it $13\frac{14}{24}$. But I realized I could simplify it. So I simplified it to $13\frac{7}{12}$ yards.

colors of cloth Brenda will use to make one tree costume.

3 $\frac{5}{8}$ yards brown cloth

2 $\frac{1}{2}$ yards orange cloth

$\frac{2}{3}$ yard yellow cloth

3*

What is the difference, in yards, between the amount of orange cloth and the amount of brown cloth that Brenda will use to make one tree costume? Show or explain how you got your answer.

$$\begin{array}{r} 3\frac{5}{8} \\ - 2\frac{1}{2} \\ \hline 1\frac{1}{8} \end{array}$$
 I subtracted $2\frac{1}{2}$ from $3\frac{5}{8}$. The common denominator was 8. $\frac{5 \times 1}{8 \times 1} = \frac{5}{8}$; $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$; $2 - 3 = 1$ so the answer is $1\frac{1}{8}$ yds of cloth would be $1\frac{1}{8}$ yds of cloth.

Brenda plans to use brown cloth for the trunk and branches of the tree, and orange and yellow cloth for the leaves.

What is the total amount of cloth, in yards, Brenda will use to make the leaves of one tree costume? Show or explain how you got your answer.

$$2\frac{1}{2} + \frac{2}{3} = \frac{2 \times 3}{2 \times 3} + \frac{2 \times 2}{3 \times 2} = \frac{6}{6} + \frac{4}{6} = \frac{10}{6} = 1\frac{4}{6} = 1\frac{2}{3}$$
 I added $2\frac{1}{2}$ to $\frac{2}{3}$. The common denominator is 6, $\frac{2 \times 3}{2 \times 3} = \frac{6}{6}$, $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$; $\frac{6}{6} + \frac{4}{6} = \frac{10}{6}$. Your answer would be $1\frac{4}{6}$ but you have an improper fraction $\frac{10}{6} = \frac{5}{3}$, $1 + 2 = 3$ $3\frac{2}{3}$.

Brenda wants to make two tree costumes.

What is the total amount of cloth, in yards, Brenda will use to make two tree costumes? Show or explain how you got your answer.

$$3\frac{5}{8} + 2\frac{1}{2} = 5\frac{9}{8} = 6\frac{1}{8}$$

$$6\frac{1}{8} + \frac{2}{3} = 6\frac{3}{24} + \frac{16}{24} = 6\frac{19}{24}$$

$$6\frac{19}{24} + 6\frac{19}{24} = 12\frac{38}{24} = 13\frac{14}{12} = 13\frac{7}{6}$$
 I added $3\frac{5}{8}$ to $2\frac{1}{2}$ and $\frac{2}{3}$. The common denominator is 24. $3\frac{5}{8} + 2\frac{1}{2} = 5\frac{15}{8} = 6\frac{3}{8}$; $6\frac{3}{8} + \frac{2}{3} = 6\frac{9}{24} + \frac{16}{24} = 6\frac{25}{24}$; $6\frac{25}{24} + 6\frac{25}{24} = 12\frac{50}{24} = 13\frac{7}{6}$. Your answer is $13\frac{7}{6}$ yds of cloth.