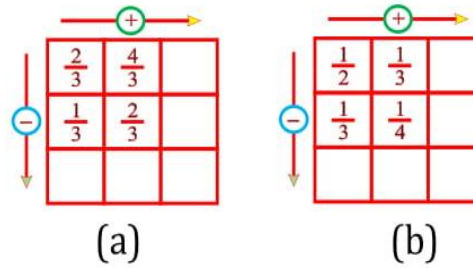## Question 4:

Fill in the boxes: (a) $\square - \dfrac{5}{8} = \dfrac{1}{4}$ (b) $\square - \dfrac{1}{5} = \dfrac{1}{2}$ (c) $\dfrac{1}{2} - \square = \dfrac{1}{6}$
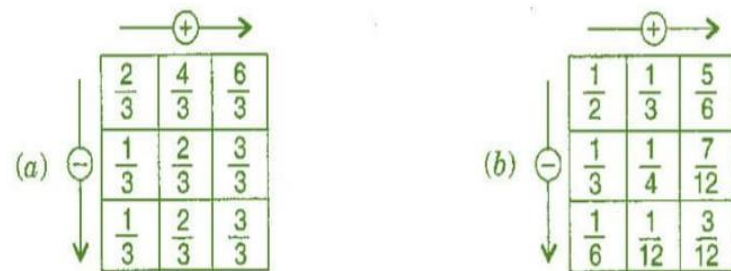
Answer 4:

(a) $\dfrac{1}{4} + \dfrac{5}{8} = \dfrac{2+5}{8} = \dfrac{7}{8}$ (b) $\dfrac{1}{2} + \dfrac{1}{5} = \dfrac{5+2}{10} = \dfrac{7}{10}$ (c) $\dfrac{1}{2} - \dfrac{1}{6} = \dfrac{3-1}{6} = \dfrac{2}{6}$

Question 5:

Complete the addition – subtraction box:

(a)   (b)

Answer 5:

Question 6:

A piece of wire $\dfrac{7}{8}$ meter long broke into two pieces. One piece was $\dfrac{1}{4}$ meter long. How long is the other piece?

Answer 6:

Total length of wire $= \dfrac{7}{8}$ meter

Length of first part $= \dfrac{1}{4}$ meter

Remaining part $= \dfrac{7}{8} - \dfrac{1}{4} = \dfrac{7\times1 - 2\times1}{8}$ [∵ L.C.M. of 8 and 4 is 8]

$= \dfrac{7-2}{8} = \dfrac{5}{8}$ meter

Therefore, the length of remaining part is $\dfrac{5}{8}$ meter.

Question 7:

Nandini house is $\dfrac{9}{10}$ km from her school. She walked some distance and then took a bus for $\dfrac{1}{2}$ km to reach the school. How far did she walk?

Answer 7:

Total distance between school and house $= \dfrac{9}{10}$ km

Distance covered by bus $= \dfrac{1}{2}$ km

Remaining distance $= \dfrac{9}{10} - \dfrac{1}{2} = \dfrac{9 \times 1 - 1 \times 5}{10}$ [∵ L.C.M. of 10 and 2 is 10]

$= \dfrac{9-5}{10} = \dfrac{4}{10} = \dfrac{2}{5}$ km

Therefore, the distance covered by walking us $\dfrac{2}{5}$ km.

Question 8:

Ahsa and Samuel have bookshelves of the same size partly filled with books. Asha's shelf is $\dfrac{5}{6}th$ full and Samuel's shelf is $\dfrac{2}{5}th$ full. Whose bookshelf is more full? By what fraction?
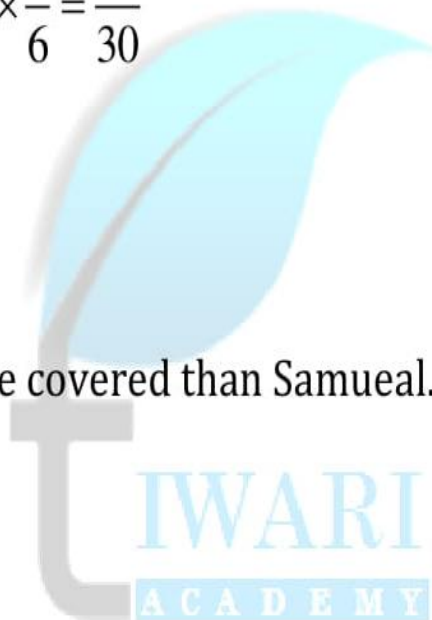
Answer 8:

$\dfrac{5}{6}$ and $\dfrac{2}{5}$

$\Rightarrow \quad \dfrac{5}{6} \times \dfrac{5}{5} = \dfrac{25}{30}$ and $\dfrac{2}{5} \times \dfrac{6}{6} = \dfrac{12}{30}$ [∵ L.C.M. of 6 and 5 is 30]

$\because \quad \dfrac{25}{30} > \dfrac{12}{30}$

$\Rightarrow \quad \dfrac{5}{6} > \dfrac{2}{5}$

∴ Asha's bookshelf is more covered than Samueal.

Difference $= \dfrac{25}{30} - \dfrac{12}{30} = \dfrac{13}{30}$

Question 9:

Jaidev takes $2\dfrac{1}{5}$ minutes to walk across the school ground. Rahul takes $\dfrac{7}{4}$ minutes to do same. Who takes less time and by what fraction?

Answer 9:

Time taken by jaidev $= 2\dfrac{1}{5}$ minutes $= \dfrac{11}{5}$ minutes

Time taken by Rahul $= \dfrac{7}{4}$ minutes

Difference $= \dfrac{11}{5} - \dfrac{7}{4} = \dfrac{11 \times 4 - 7 \times 5}{20}$ [∵ L.C.M. of 5 and 4 is 20]

$= \dfrac{44-35}{20} = \dfrac{9}{20}$ minutes

Thus, Rahul takes less time, which is $\dfrac{9}{20}$ minutes.

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