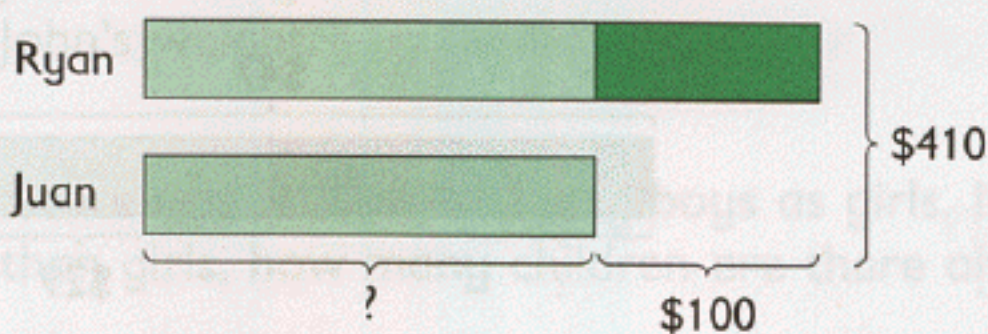1. Ryan and Juan shared $410 between them. Ryan received $100 more than Juan. How much money did Juan receive?

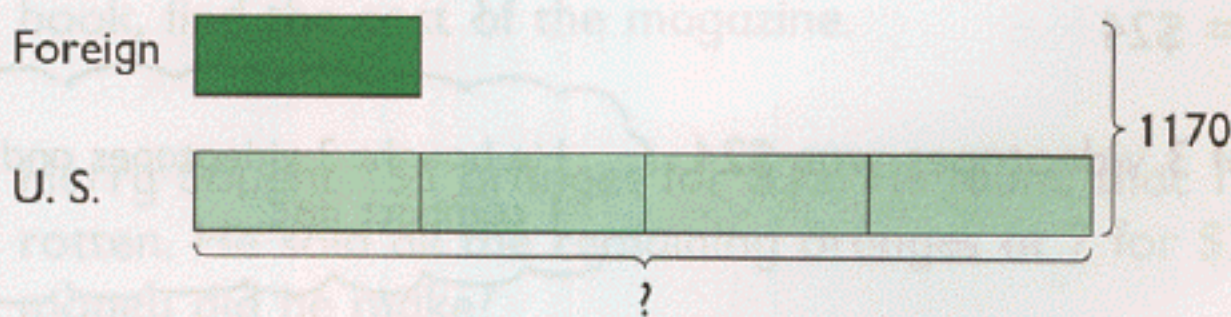Ryan

Juan

$410

? $100

> Give Ryan $100 first and divide the remaining money into two units.

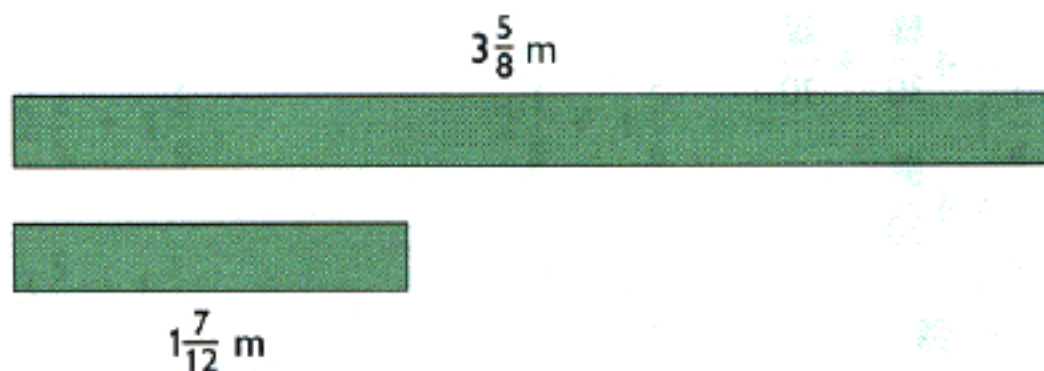2 units = $410 − $100
         = $310
1 unit = $▢

Juan received $▢.

2. Peter collected a total of 1170 stamps. He collected 4 times as many U.S. stamps as foreign stamps. How many U.S. stamps did he collect?
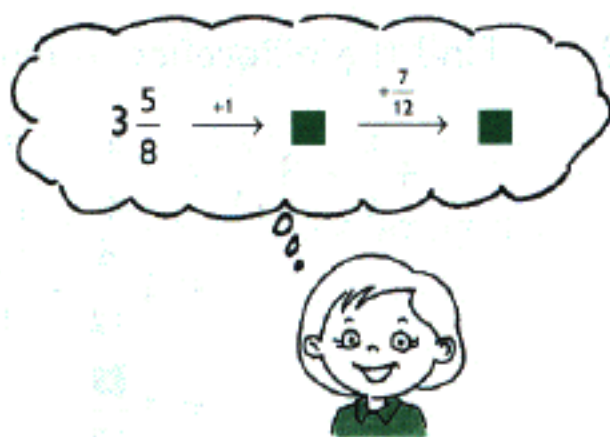
Foreign

U. S.

1170

?

3 Addition and Subtraction of Mixed Numbers

$3\frac{5}{8}$ m

$1\frac{7}{12}$ m
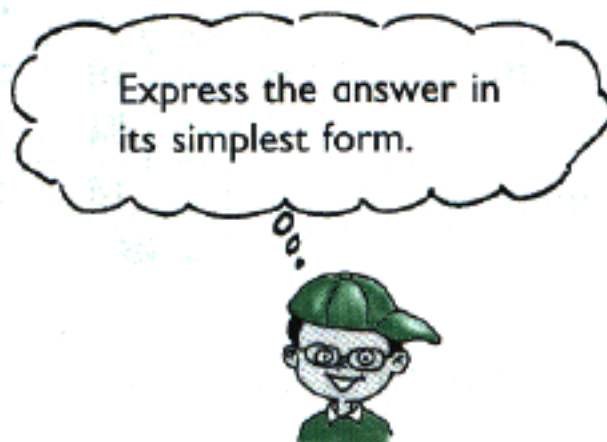
(a) Find the total length of $3\frac{5}{8}$ m and $1\frac{7}{12}$ m.

$$3\frac{5}{8} + 1\frac{7}{12} = 4\frac{5}{8} + \frac{7}{12}$$

$$= 4\frac{15}{24} + \frac{14}{24}$$

$$= 4\frac{\blacksquare}{24}$$

$$= \blacksquare$$

$3\frac{5}{8} \xrightarrow{+1} \blacksquare \xrightarrow{+\frac{7}{12}} \blacksquare$
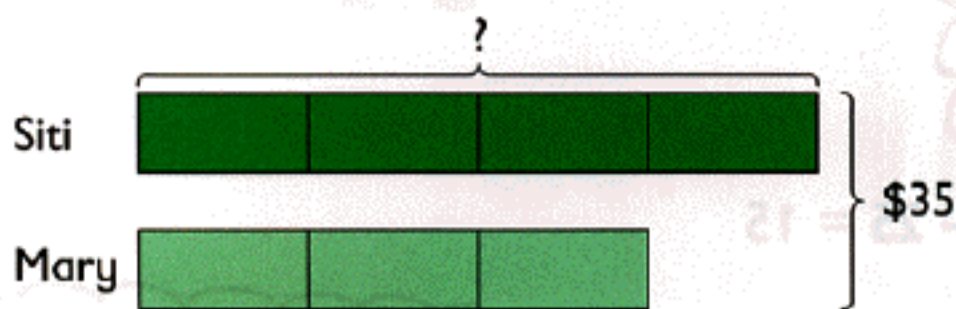
The total length is $\blacksquare$ m.

(b) Add $4\frac{7}{12}$ and $1\frac{3}{4}$.

$$4\frac{7}{12} + 1\frac{3}{4} = 5\frac{7}{12} + \frac{3}{4}$$

$$= 5\frac{7}{12} + \frac{9}{12}$$

$$= 5\frac{\blacksquare}{12}$$

$$= 5\frac{\blacksquare}{3}$$

$$= \blacksquare$$

Express the answer in its simplest form.

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6. Siti and Mary shared $35 in the ratio 4 : 3. How much money did Siti receive?

?

Siti

Mary

$35

7 units = $35

1 unit = $■

4 units = $■

Siti received $■.

7. The ratio of the weight of Package X to the weight of Package Y is 5 : 3. If the weight of Package X is 40 kg, find the total weight of the two packages.

40 kg

X

Y

?

5 units = 40 kg

1 unit = ■ kg

8 units = ■ kg

The total weight is ■ kg.

REVIEW C

1.   A plane traveled 5840 mi.
     Round off this distance to the nearest 100 miles.

2.   David is 17 lb lighter than Pablo. Their total weight is 259 lb.
     Find David's weight.

3.   Water is poured equally into 4 containers. Each container has 5 c of
     water. How many quarts of water are there in the four containers?

4.   Mrs. Anderson bought 5 yd of cloth. She used the cloth to make 12
     napkins of the same size. How much cloth did she use for each napkin?
     (Give the answer in feet.)

5.   Adam poured 4 qt of milk equally into 5 jugs.
     How much milk was there in each jug?
     (Give the answer in quarts.)

6.   A crate of strawberries weighing 8 lb was divided into 12 equal
     shares. What was the weight of each share?
     (Give the answer in ounces as a mixed fraction.)

7.   How many cubic inches are there in a cubic foot?

8.   (a)   What fraction of 3 lb is 8 oz?
     (b)   What fraction of 2 gal is 3 qt?
     (c)   What fraction of 2 qt is 4 c?

9.   A ribbon is $\frac{3}{4}$ ft long. Express $\frac{3}{4}$ ft in inches.

10. Mrs. Garcia had 6 lb of flour. She used $\frac{1}{5}$ of it to make bread.

     How much flour was left?
     (Give the answer in pounds.)

11. The ratio of the length of a rectangular field to its width is 5 : 2. The
     length of the field is 30 yd. Find its perimeter and area.