

Instructions: Sharing an Amount by a Given Ratio

Example: Share \$60 in the ratio 2 : 3

Step 1: Add the parts of the ratio

Add the numbers in the ratio to find the total number of parts.

$$2 + 3 = 5 \text{ parts}$$

Step 2: Divide the total amount by the total number of parts

This gives the value of one part.

$$\$60 \div 5 = \$12 \text{ per part}$$

Step 3: Multiply each part by its ratio number

Now multiply the value of one part by each number in the ratio.

$$\text{First share (2 parts): } 2 \times \$12 = \$24$$

$$\text{Second share (3 parts): } 3 \times \$12 = \$36$$

Step 4: Check your work

Add the shares to make sure they equal the total amount.

$$\$24 + \$36 = \$60 \quad \checkmark$$

Tip:

If the ratio has more parts (like 2 : 3 : 5), just follow the same steps:

Find the total number of parts for the ratio 2 : 3.

A garden has 30 flowering plants. The ratio of plants with pink flowers to plants with yellow flowers is 6 : 4. How many pink flowers has she planted?

Share \$250 in the ratio 1 : 4.

Number of Parts =

Amount $\div$ NP =

Ratio \$: \$

Share \$100 in the ratio 2 : 8.

Number of Parts =

Amount $\div$ NP =

Ratio \$: \$

Find the total number of parts for the ratio 8 : 12.

Number of Parts =

Share \$35 in the ratio 2 : 3.

Number of Parts =

Amount $\div$ NP =

Ratio \$: \$

A shelf holds 15 baseball caps. The ratio of red caps to yellow caps is 1 : 4. How many of the caps are red?

The ratio of marshmallows to jelly babies in a jar is 3 : 7. There are 50 lollies in the jar. How many jelly babies are in the jar?

Share \$45 in the ratio 5 : 10.

Number of Parts =

Amount $\div$ NP =

Ratio \$: \$