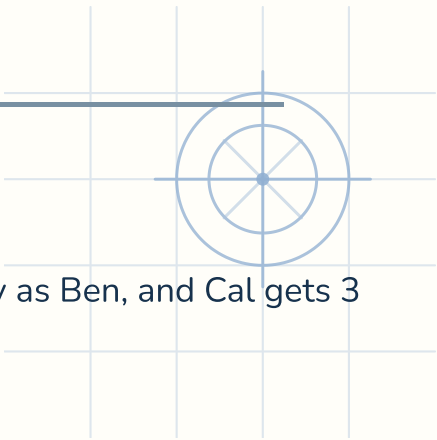


Sharing puzzles — Totals to 120

Name: _____

Date: _____



Find the smallest share. Show how you worked it out.

- 1 Ben, Ana and Cal share 119 sweets. Ana gets 2 times as many as Ben, and Cal gets 3 more than Ben.

How many does Ben get?

Why

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- 2 112 books go onto three shelves. The middle shelf holds 2 times what the top shelf holds, and the bottom shelf holds 8 more than the top.

How many books are on the top shelf?

Why

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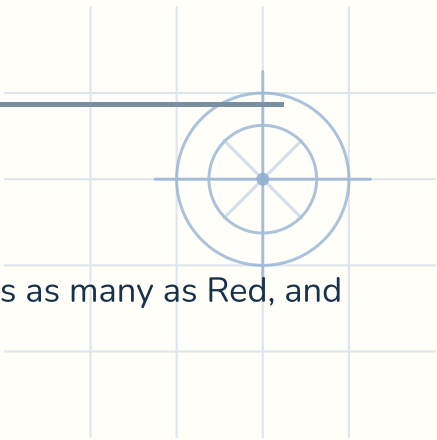
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Sharing puzzles — Totals to 120

Name: _____

Date: _____



Find the smallest share. Show how you worked it out.

- 3 Three teams pick 118 apples between them. Blue picks 2 times as many as Red, and Green picks 2 more than Red.

How many does Red pick?

Why

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- 4 A prize of 109 tokens is split between Iris, Jon and Kit. Jon takes 2 times Iris's share, and Kit takes 9 more than Iris.

How many tokens does Iris get?

Why

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Sharing puzzles · Totals to 120 — Answer key

If they are stuck

- Whose share is the smallest? Try calling it one part and writing the others in terms of it.

1. Call Ben's share one part. Then Ana has 2 parts, and Cal has one part and 3 more. That is 4 parts and 3 extra, adding to 119. Take the 3 off first: $119 - 3 = 116$. Now $116 \div 4 = 29$, so one part is 29 sweets.

3. Call Red's share one part. Then Blue has 2 parts, and Green has one part and 2 more. That is 4 parts and 2 extra, adding to 118. Take the 2 off first: $118 - 2 = 116$. Now $116 \div 4 = 29$, so one part is 29 apples.

2. Call the top shelf's share one part. Then the middle shelf has 2 parts, and the bottom shelf has one part and 8 more. That is 4 parts and 8 extra, adding to 112. Take the 8 off first: $112 - 8 = 104$. Now $104 \div 4 = 26$, so one part is 26 books.

4. Call Iris's share one part. Then Jon has 2 parts, and Kit has one part and 9 more. That is 4 parts and 9 extra, adding to 109. Take the 9 off first: $109 - 9 = 100$. Now $100 \div 4 = 25$, so one part is 25 tokens.

