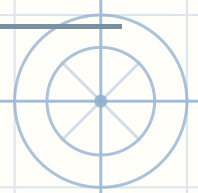


Settled or not — Prices to 60c

Name: _____

Date: _____



Not every price can be found. Answer what you can, or write CANNOT TELL.

- 1 The cafe board has lost its prices. Fact 1: 4 teas, 4 coffees and 1 cocoa come to 404c.
Fact 2: 3 coffees and 1 cocoa come to 127c.

What do one tea and one coffee cost altogether?

Why Not settled. With tea 59c, coffee 41c and cocoa 4c, both facts hold and one tea and one coffee come to 100c. With tea 60c, coffee 37c and cocoa 16c, both facts hold as well and the same thing comes to 97c. Two answers from the same two facts, so this one cannot be told.

CANNOT TELL

-
- 2 The school shop has mislaid its price list. Fact 1: 4 pencils and 2 erasers come to 262c.
Fact 2: 2 pens, 4 pencils and 4 erasers come to 384c.

What do one pen and one eraser cost altogether?

Why

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Settled or not · Prices to 60c — Answer key

If they are stuck

- Do not look for the prices; they cannot be found. What CAN be built from the two facts?

1. Not settled. With tea 59c, coffee 41c and cocoa 4c, both facts hold and one tea and one coffee come to 100c. With tea 60c, coffee 37c and cocoa 16c, both facts hold as well and the same thing comes to 97c. Two answers from the same two facts, so this one cannot be told.

2. Fact 2 less fact 1: $384 - 262 = 122$ c, and that buys 2 pens and 2 erasers — two lots of what the question asks for. So one lot is $122 \div 2 = 61$ c. The answer came from the two totals alone and never from a price: a pen could be 2c or 4c and both facts would still hold.