

Common Heuristics For P4 & P5

GUIDED EXAMPLE 1

Work backwards

Jeffery collected some stamps.

He gave $\frac{2}{9}$ of her stamps to his brother and bought 140 new stamps.

He then divided all her stamps equally into 4 albums.

If there are 70 stamps in each album, how many stamps did he have at first?

GUIDED EXAMPLE 2

Work backwards

There are some beads in the container.

Anna took $\frac{2}{3}$ of the marbles out of the box.

She then put 5 beads back into the container and repeated this process five times.

If there were 8 beads left in the in the end, how many beads were in the container at first?

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GUIDED EXAMPLE 3

Listing

When a number is divided by 3, the remainder is 1.

When the same number is divided by 6, the remainder is 4.

If the number is between 30 and 50, list all the possible number(s).

GUIDED EXAMPLE 4

Listing

There are three bulbs in a shop. One lights up every 4 minutes,

another bulb lights up every 8 minutes and the third bulb lights up every 11 minutes.

All the bulbs light up together when Ali walked into the shop.

How many times will he see at least 2 bulbs light up together if he was in the shop for $\frac{3}{4}$ hour?

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GUIDED EXAMPLE 5

Guess & Check | Supposition

A shop owner bought a total of 120 pens and pencils for \$40.80.

Each pen costs \$0.40 and each pencil costs \$0.30.

How many pens did the owner buy?