Name _____

# Problem Solving: Multiple-Step Problems

Faye is putting together packets of colored beads to give as gifts. The chart shows the beads she had on hand yesterday. This morning she bought 4 boxes of yellow beads containing 45 beads each. How many packets of 60 beads can she put together?

| Trinket Beads | |
|---|---|
| **Color** | **Number** |
| Red | 195 |
| Blue | 170 |
| Green | 175 |

Find the hidden question or questions.

**1.** How many yellow beads are there?　**1.** $45 \times 4 = 180$

**2.** How many beads are there in all?　**2.** $195 + 170 + 175 + 180 = 720$

Solve.　$720 \div 60 = 12$

Write the answer in a sentence.　Faye will make 12 packets.

**Look Back and Check**

Is the answer reasonable?　Yes. Since $60 \times 10 = 600$, the answer is reasonable.

**1.** Faye decides to double the number of yellow beads in the mix. How many packets will she make if she fills each packet with 60 beads? _____

**2.** **Explain It** Suppose Faye plans to fill packets with 60 beads after deciding not to add any yellow beads to the mix. If you want to find how many packets she can put together, what hidden question or questions would you have to ask? Explain.

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# Problem Solving:
# Multiple-Step Problems

Write and answer the hidden question. Then solve.

**1.** Gloria talked on her cell phone for 320 minutes the first
month, 243 minutes the second month, and 489 minutes
the third month. Her payment package does not allow her
to pay per minute; she can only buy packages. If she has
to pay $25 for every 200 minutes, how much did she pay
for the first three months?

_____

_____

_____

**2.** Each can of paint will cover 450 tiles. Augustin is painting
300 tiles in his bathroom, 675 in his kitchen, and 100 in his
hallway. How many cans of paint does he need to buy?

_____

_____

**3.** The sum of three different numbers is 18. If every number is a
prime number, what are the three numbers?

_____

_____

**4.** You earn $3 an hour as a waitress. After working 3 hours, you
earn $12, $5, and $7 in tips. How much money did you earn
in total? Explain how you found your answer.

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