

Logic Puzzles 2

Name: _____ Period: _____

1. Five people put a gallon of gasoline in their vehicles to see who could go the farthest. Using the clues, including the conversion information below, figure out which vehicle went farthest, who drove it, and what color it was.

- Clue 1: 1 mile (mi.) = 1.6 kilometers (k.)
 Clue 2: The red motorcycle traveled 12 k. farther than the SUV.
 Clue 3: One vehicle, not the SUV, went 34.5 miles.
 Clue 4: The person driving the motorcycle wore a green coat and traveled 48 k.
 Clue 5: The old woman drove 55.2 k.
 Clue 6: The referee traveled 19.2 k. fewer than the one in tennis shoes and 4.5 miles fewer than the green station wagon.
 Clue 7: The one in ski boots traveled 27 miles per gallon in the pickup.
 Clue 8: The driver of the blue sports car wore gold earrings.
 Clue 9: The five vehicles traveled a total of 150 miles.
 Clue 10: The orange vehicle traveled 22.5 miles.

| | Station wagon | Motor-cycle | SUV | Pickup | Sports car | k. | mi. |
|---------------------------|---------------|-------------|------|--------|------------|------|------|
| Man in green coat | | * | | | | 48 | 30 |
| Woman with gold earrings | | | | | * | 57.6 | 36 |
| Teen in ski boots | * | | | | | 43.2 | 27 |
| Old woman in tennis shoes | | | | * | | 55.2 | 34.5 |
| Basketball referee | | | * | | | 36 | 22.5 |
| Blue | | | | | * | 57.6 | 36 |
| Black | | | | * | | 55.2 | 34.5 |
| Green | * | | | | | 43.2 | 27 |
| Red | | * | | | | 48 | 30 |
| Orange | | | * | | | 36 | 22.5 |
| k. | 43.2 | 48 | 36 | 55.2 | 57.6 | | |
| mi. | 27 | 30 | 22.5 | 34.5 | 36 | | |

2. Five hog farmers were taking their hogs to the Annual County Fair when a sudden fog came up at an intersection at exactly the time all five were crossing, causing everyone to run into each other. No one was injured, but all the hogs—a total of 336—got loose and ran into the fog. From the clues, how many hogs were in each truck?

Clue 1: The Dodge carried four times as many hogs as the Chevrolet.

Clue 2: The largest load, $\frac{1}{3}$ of the hogs, had been in the Mack.

Clue 3: The smallest load, 24 hogs, was not from the Ford.

Clue 4: The Ford carried 24 fewer hogs than the GMC.

| Chevrolet | Dodge | Ford | GMC | Mack |
|-----------|-------|------|-----|------|
| 24 | 96 | 40 | 64 | 112 |

3. These guys are crazy! About sit-ups, that is. Every morning before school they meet in the gym for a sit-up race. This morning, how many sit-ups did each boy do?

Clue 1: Logan did half as many as Leo.

Clue 2: Nicky did twice as many as Zack.

Clue 3: Chan did $\frac{1}{3}$ as many as Axel.

Clue 4: Dale did three times more than Andy.

Clue 5: Leo did half as many as Dale.

Clue 6: Chan did three times as many as Zack.

Clue 7: Andy did $\frac{2}{3}$ as many as Leo.

Clue 8: Logan did three times more than Nicky.

Clue 9: The fewest number of sit-ups was five.

Clue 10: One of the boys did 60.

| Andy | Chan | Nicky | Leo | Axel | Dale | Logan | Zack |
|------|------|-------|-----|------|------|-------|------|
| 40 | 15 | 10 | 60 | 45 | 120 | 30 | 5 |