

LOGIC PROBLEM 1

MUG WORK

Nancy's in-home pottery business is beginning to take off. Today, she got up early to work on novelty mugs that were ordered by the Big Red Barn. In short order, she's applied handles to five mugs she threw earlier in the week, each of which is in a different style (one is a cowboy mug, on which the lariat forms the handle). Nancy has also selected a different-colored glaze for the main color on each mug. Although each of the mugs is a different diameter, Nancy's work is so consistent that the differences are very slight (the mugs are 71, 72, 73, 74, and 75 millimeters in diameter). Nancy began working on each mug at a different time. From the information provided, determine the diameter of each mug, the color (one is blue) of the glaze that has been selected for it, and the time (6:00 a.m., 6:05 a.m., 6:10 a.m., 6:15 a.m., or 6:20 a.m.) at which Nancy began work on it.

- Consecutively, in the following order from first to last, Nancy applied handles to the 75-millimeter mug, the one that will get the green glaze, and the dinosaur mug.
- Nancy began applying a handle to the barrel mug exactly 10 minutes after she began work on the mug that will get the purple glaze.
- The diameter of the mug that will get the yellow glaze is exactly 1 millimeter smaller than that of the monkey mug, which has a diameter exactly 1 millimeter smaller than that of the mug on which Nancy began work at 6:10 a.m.
- Nancy began applying a handle to the mug that will get the red glaze exactly 10 minutes after she began work on the 74-millimeter mug.
- Nancy began work on the fish mug (which isn't the one that will get the yellow glaze) at 6:05 a.m.
- Nancy began work on the 71-millimeter mug (which isn't the barrel mug) at 6:20 a.m.

This chart is to help you record information from the clues as well as the facts you deduce by combining information from different clues. We suggest you use an "X" for a "no" and a "•" for a "yes."

		DIAMETER					COLOR					TIME				
		71 mm	72 mm	73 mm	74 mm	75 mm	BLUE	GREEN	PURPLE	RED	YELLOW	6:00 a.m.	6:05 a.m.	6:10 a.m.	6:15 a.m.	6:20 a.m.
MUG	BARREL															
	COWBOY															
	DINOSAUR															
	FISH															
	MONKEY															
TIME	6:00 a.m.															
	6:05 a.m.															
	6:10 a.m.															
	6:15 a.m.															
	6:20 a.m.															
COLOR	BLUE															
	GREEN															
	PURPLE															
	RED															
	YELLOW															

MUG	DIAMETER	COLOR	TIME

Solution on page 174

SIMON SAYS

Follow the directions carefully to discover an answer that is apropos.

Solution on page 176

1. Start with HERB-GROWING TIP. 1. HERBGROWINGTIP
2. Change the first vowel from the right to A. 2. _____
3. Change the fourth letter from the left to the letter that comes immediately after it in the alphabet. 3. _____
4. Double the first vowel from the left. 4. _____
5. Double the first vowel from the right. 5. _____
6. Delete the H. 6. _____
7. Switch the two vowels that have no matches. 7. _____
8. Change the first consonant from the right to S. 8. _____
9. Change the center letter to the letter that comes immediately before it in the alphabet. 9. _____
10. Delete the first G from the left. 10. _____
11. Delete the first consonant from the left. 11. _____
12. Change the letter immediately to the left of three consecutive consonants to D. 12. _____
13. Delete the tenth letter from the left. 13. _____
14. Move the G between the double vowels to its right. 14. _____
15. Move one of the adjacent double vowels to the fourth position from the right. 15. _____
16. Delete the letter immediately to the right of the first consonant from the left. 16. _____
17. Delete the N. 17. _____
18. Reverse the order of all the letters. 18. _____

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