

NAME _____

PRINCIPLE (JUNIOR/SENIOR DIVISION ONLY)

The blank card wild variation reads as follows.

"If the blank card has been dealt, each Solution-writer must specify in writing which colors, if any, are on it."

COMMENTS

1. If double B is also chosen, a player putting a B dot on the blank card makes that card count double for that player's Solution.
2. If both blank card wild and blank card required are chosen, the blank card must be in the Set-Name but may have one or more colors on it.

EXAMPLES WITH BLANK CARD WILD

B G	R G	B G Y	R	B	G Y		B R G Y
1	2	3	4	5	6	7	8

1. For the Solution $B \cup R$, if the blank card has a B or a R on it, there are 7 cards in the set rather than 6. Note: You may put a B dot on the blank card and have two copies of card 5.
2. The set $(G \cap Y)'$ contains only four cards if both G and Y are placed on the blank card.

EXERCISES

Suppose the blank card is wild for the Universe above. Give the number of cards in each set with the indicated colors on the blank card.

<u>Blank card</u>	<u>Set-Name</u>	_____	<u>Blank card</u>	<u>Set-Name</u>	_____
1. B	$B - G$	_____	2. R	$R' - Y$	_____
3. G	$Y - G$	_____	4. Y	$(Y \cup B)'$	_____
5. B, R	$B \cap R$	_____	6. G, Y	$G' \cup Y'$	_____
7. B, R, G	$B \cap R \cap G$	_____	8. R, G, Y	$(G \cup R) - Y$	_____
9. B	$(B - R) - Y$	_____	10. R, G	$(B \cup G) \cap R$	_____

MORE CHALLENGING EXERCISES

What color(s) should be on the blank card (if any) in the Universe above so that the set listed contains the number of cards listed?

- | | | | |
|--------------------------------|-------|--------------------------------|-------|
| 11. $Y - G$, 1 card | _____ | 12. $R' \cup B$, 5 cards | _____ |
| 13. $(G \cap Y) - B$, 2 cards | _____ | 14. $R - (B - Y)$, 4 cards | _____ |
| 15. $(B \cup Y)'$, 3 cards | _____ | 16. $(G - Y) \cup R$, 5 cards | _____ |