

Finding Combinations of Attributes

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Describe all the cards that could be made for each setting. You might not need all the spaces.

1 Figure =



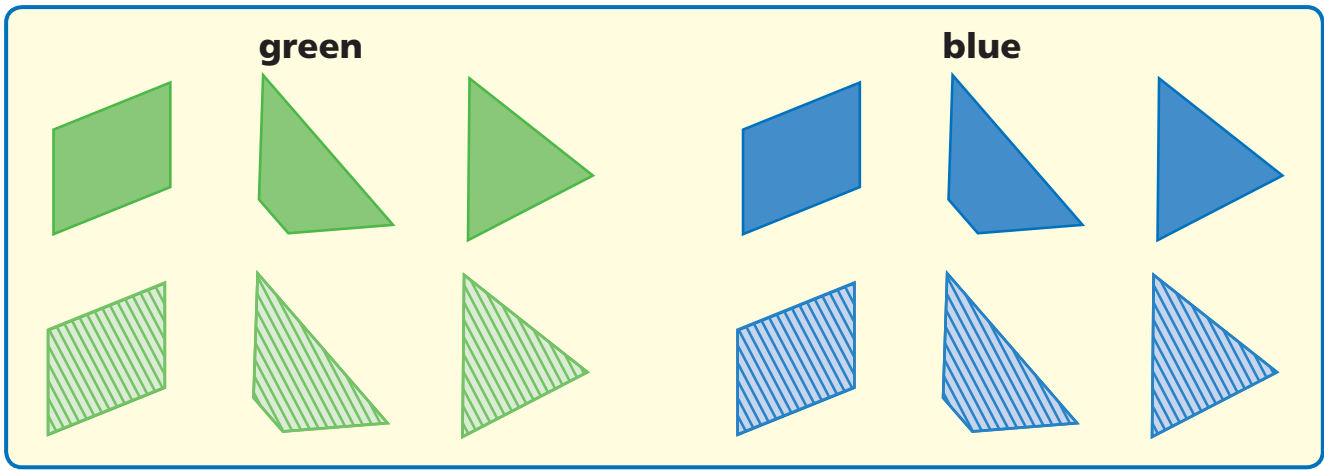
| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

2 Color = green

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

3 Shading =  ; Figure = 

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |



Answer the questions about the cards.

4 What portion of the cards are green? ____ out of ____
 What portion of the cards have a triangle? ____ out of ____
 What portion of the cards have a green triangle? ____ out of ____

5 What portion of the cards have polka dots? ____ out of ____
 What portion of the cards have a trapezoid? ____ out of ____
 What portion of the cards have a polka-dot trapezoid? ____ out of ____

6 What portion of the cards have a parallelogram? ____ out of ____
 What portion of the cards have a solid blue figure? ____ out of ____
 What portion of the cards have at least one of these attributes: a parallelogram or a solid blue figure? ____ out of ____

7 Challenge

What portion of the cards do not have a triangle? ____ out of ____
 What portion of the cards are not green? ____ out of ____
 What portion of the cards are green and do not have a triangle? ____ out of ____
 What portion of the cards have at least one of these attributes: green or no triangle? ____ out of ____