REVIEW: Combinations

-Key Concept and Vocabulary –

You can choose 2 out of 4 marbles







in 6 ways (order does not matter).









Skill Example

1. You can choose 3 out of 4 marbles







in 4 ways (order does not matter).





Visual Model

Be careful not to double count ways. Order does not matter for combinations.













Application Example

2. How many 2-person committees can you form from 5 people?





You can form 10 different committees.

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Check your answers at BigIdeasMath.com. ——

3. FIGURES Draw all the ways that you can choose 2 figures out of 3 figures.







4. COMMITTEES How many 3-person committees can you form from 5 people? (Draw a sketch for each committee.) 10





- [123][125][135][234][245](124)(134)(145)(235)(345)
- **5. PAIRS OF SOCKS** How many pairs of socks can you make from 7 identical socks? (*Draw a sketch for each pair.*) _____21



- (12)(15)(23)(26)(35)(45)(56)13 16 24 27 36 46 5714 17 25 34 37 47 67
- **6. RIDING IN AN SUV** Eight people want to ride in an SUV that can only hold 7 people. How many groups of 7 people can be chosen from the 8 people? Explain. 8 groups; 1,2,3,4,5,6,7; 1,2,3,4,5,6,8; 1,2,3,4,5,7,8;

1,2,3,4,6,7,8; 1,2,3,5,6,7,8; 1,2,4,5,6,7,8;

1,3,4,5,6,7,8; 2,3,4,5,6,7,8

