

Warmup Review

14 minutes

1. The teacher needs to randomly select any 3 students from his class of 8 students to go set up the lounge for an event.

a) How many ways can teacher do that

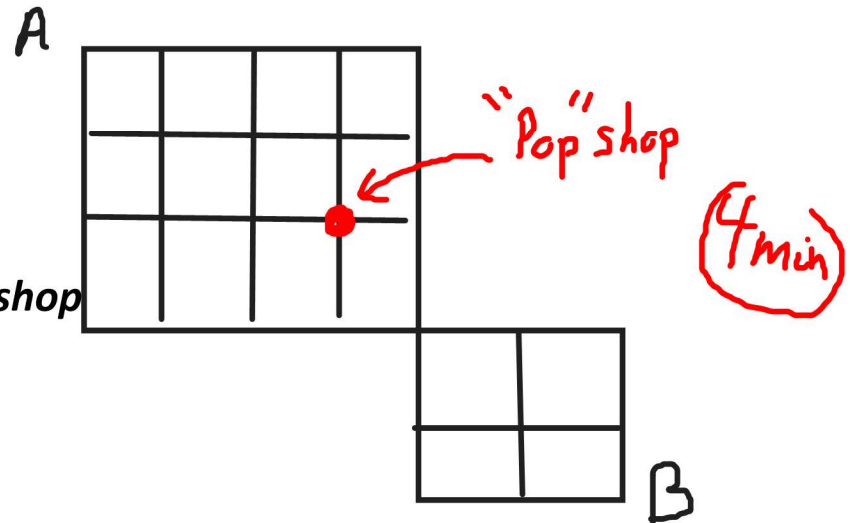
b) How many ways can teacher select the three students if he is taking one particular student (Amanda) for sure

1 min

2. The college is having a track and field event! There are 12 students in the race. How many ways can first, second, and third place ribbons be awarded?

1 min

3. Josh is going from A to B on a random route. He is only allowed to move East and South. Determine the probability he wanders past the 'pop' shop



4. Karen invests \$4500 in Sandra's photography business. Sandra promises a return on the investment of 6.5% compounded monthly. Determine the future value of Karen's investment after 5 years.

2 min

5. Elias invests \$3,500 in Jordan's start up Hair and Nail Salon. Jordan promises to pay 12% interest compounded monthly. Determine how many years it will take for Elias's investment to double.

2 min

6. Kevin takes a loan for a \$26,500 loan for a car. The dealer charges 28.8% interest compounded monthly. The term of the loan is for 5 years.

a) determine Kevin's Monthly Payment

b) determine how much the loan cost Kevin (the interest paid)

2 min

7. You are playing a card game, the standard 52 card deck. You are dealt five cards. What is the probability you are dealt a hand with four aces?

2 min