

Warmup/Practice

4-1. Tommy has 7 marbles. In how many ways can he choose 5 of them?

4-2. A teacher is going to choose 4 students from his class of 18 students to organize a class trip. In how many ways can he do this if

a) there are no restrictions?

b) Meredith, a student in the class, must be one of the students chosen?

c) Alex, Trey and Yvonne, students in the class, must not be chosen?

4-3. How many 5-card hands will be dealt out from a deck of 52 cards if

a) there are exactly 3 face cards?

b) there is at least 3 face cards?

c) What is the probability you will be dealt a hand with 3 Face Cards

Warmup/Practice

2-5. Elizabeth wants to get the most money she can out of her investments. As a result, after investing \$1500 in a savings account for 4 years at an interest rate of 4.2%, compounded weekly, she moves her money to a GIC that she invests in for another 6 years. The GIC offers an interest rate of 5.5%, compounded monthly. How much money will she have at the end of the 10 years?

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3-1. Josh invests \$50 weekly for 6 years in his savings account that has a 2.8% interest rate, compounded weekly. How much money will he have after 6 years?

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3-2. Rhonda needs to have \$2500 in three and a half years. What monthly investment will she have to make if her bank offers a 4.8% interest rate, compounded monthly?

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