

- 1. How many different three-member teams can be formed from six students? 6C3
 - 1. 20
 - 2. 120
 - 216
 - 4. 720

- 2. Which expression is *not* equivalent to ${}_{8}C_{5}$?
 - 8C = 56
- 3. How many different arrangements of seven letters can be made using the letters in the name "ULYSSES"?
 - 1. 35
- 4. How many different six-letter permutations can be formed from the letters of the word "HUBBUB"?
 - 4. 3!
- 5. Find the value of $\sum_{y=0}^{y}$ 1. 82 149+81 =
- 6. Express the sum of $\sqrt{-64}$ and $3\sqrt{-4}$ as a monomial in 5-164 + 3J44,17 terms of i. 18+3.2.1 8i +6i = 4. 48i
- 7. If $f(x) = x^3 2x^2$, then f(i) is equivalent to 1. -2 + i $f(i) = i^3 - 2(i^2)$ 2. -2 - i-i-2(-1)
- 8. What are the roots of the equation $2x^2 7x + 4 = 0$? $x = -b \pm \sqrt{b^2 + 4ac}$ $X = -(7) \pm \sqrt{(7)^2 - 4(2)(4)} = \frac{7 \pm \sqrt{17}}{2(2)}$
- 9. Solve $\frac{x+2}{4} = \frac{2}{x-2}$ 19. Solve $\frac{1}{4} - \frac{1}{x-2}$. (x+2)(x-2) = (4)(2) (x+2)(x-2
- 10. Solve for x: $\sqrt{5x+2} 3 = 0$ 2. 5/7 3. 7/5 4. 11/5
- g(2) = 3(2) + 1 = 6 + 1 = 7A(7) = 2(7)-1 = 14-1 = 13
- 12. What is the solution set of the inequality |2x-1| < 9? |2x-1| < 9 |2x-1| > -9

