

NORTHWEST FLORIDA STATE  
COLLEGE  
Department of Mathematics

AcroT<sub>E</sub>X Bundle  
Illustrating Combinatorics

D. P. Story

This document illustrates the `combinatorics`,  
`noBinFac` and `nodec` options of the `dljslib` package.

## 1. Combinatorics

Answer each, passing is 100%.

Binomial coefficients  $B(n, r)$ , permutations  $P(n, r)$ , and factorials  $\text{fact}(n)$  allowed, you can also use the notation  $n!$  to compute a factorial.

1. The number ways of arranging 10 distinct objects:
2. ( $2^{\text{pts}}$ ) The number of ways to choose four objects from a set of ten is

No binomial coefficients or factorials allowed.

3. ( $2^{\text{pts}}$ ) The number of ways to choose four objects from a set of ten is

Answers:

## 2. Illustrating nodec

Answer each, passing is 100%.

No decimals allowed in any of the following problems.

1. (2<sup>pts</sup>)  $0.75 =$

2. (2<sup>pts</sup>) The  $x$ -axis intercept of the line  $2x + 5y = 3$  is  $x =$

Answers: