

# UCDAVIS

## HEALTH PROFESSIONS ADVISING

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# Preparing for the DAT




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# What's on the DAT?

Content	Number of Questions	Time Limit	Time/Question
Reading	50	60 minutes	1.2 mins = 72 sec
Math	40	45 minutes	1.1 mins = 66 sec
Sciences	100	90 minutes	0.9 mins = 54 sec
Perceptual Ability	90	60 minutes	0.7 mins = 42 sec
<b>TOTAL</b>	<b>280</b>	<b>4 hours and 15 mins</b>	<b>0.91 mins = 54.6 sec</b>

## Changes to Quantitative Reasoning Test (QRT) Specifications






In order to enhance testing of critical thinking skills, the detailed specifications of the Quantitative Reasoning Test (QRT) are being changed as follows:

-  NEW Data Analysis, Interpretation, and Sufficiency.
-  NEW Quantitative Comparison (includes, but is not limited to, conversions; probability and statistics; geometry; and trigonometry)
-  The QRT will still contain 40 questions in total

These changes will be implemented during Calendar Year 2015.

## Changes to Biology Test Specifications

The Biology specifications will change slightly in 2015 as follows:

-  NEW Biomolecules (within Cell and Molecular Biology)
-  NEW Relationships (within Diversity of Life)
-  Experimental embryology will be removed from Developmental Biology.
-  Cladistics will be removed from Evolution, Ecology, and Behavior.
-  Biology will still contain 40 questions in total.

# Reading Comprehension

- 50 questions
- 3 passages
- Topics can range from astronomy to paleontology
  - Prior understanding of topics not required to answering questions
  - Requires the ability to read, comprehend, and thoroughly analyze basic scientific information

# Math

Content	Examples
Algebra	Equations and expressions, Inequalities, Exponential notation, Absolute value, Ratios and proportions, and Graphical analysis
Numeric calculations	Fractions and decimals, Percentages, Approximations, and Scientific notation
Conversions	Temperature, Time, Weight, and Distance
Probability and statistics	
Geometry	
Trigonometry	

This section includes both word problems and algebraic problems!

# Science

Content	Number of Questions
Biology	40
General Chemistry	30
Organic Chemistry	30

# Science

Glycosylation, sulfation and phosphorylation (of proteins) represent functions of which cell organelle?

- A. Endoplasmic reticulum.
- B. Golgi apparatus.
- C. Nucleus.
- D. Ribosomes.
- E. Centriole.

# Perceptual Ability

Content	Number of Questions
Apertures (Keyhole)	15
View recognition (Top/Front/End visualization)	15
Angle discrimination (Angle ranking)	15
Paper folding (Hole punches)	15
Cube counting	15
3D form development (Pattern folding)	15



# Perceptual Ability

The image displays a perceptual ability test grid with five columns labeled A through E. Each column contains a top diagram and a bottom 4x4 dot matrix.

**Column A:** The top diagram shows a square with a dashed border. Inside, a solid line forms a right-angled triangle with its hypotenuse from the top-left to the bottom-right. The bottom diagram is a 4x4 grid of 16 circles, with the top-right circle and the middle-right circle filled black.

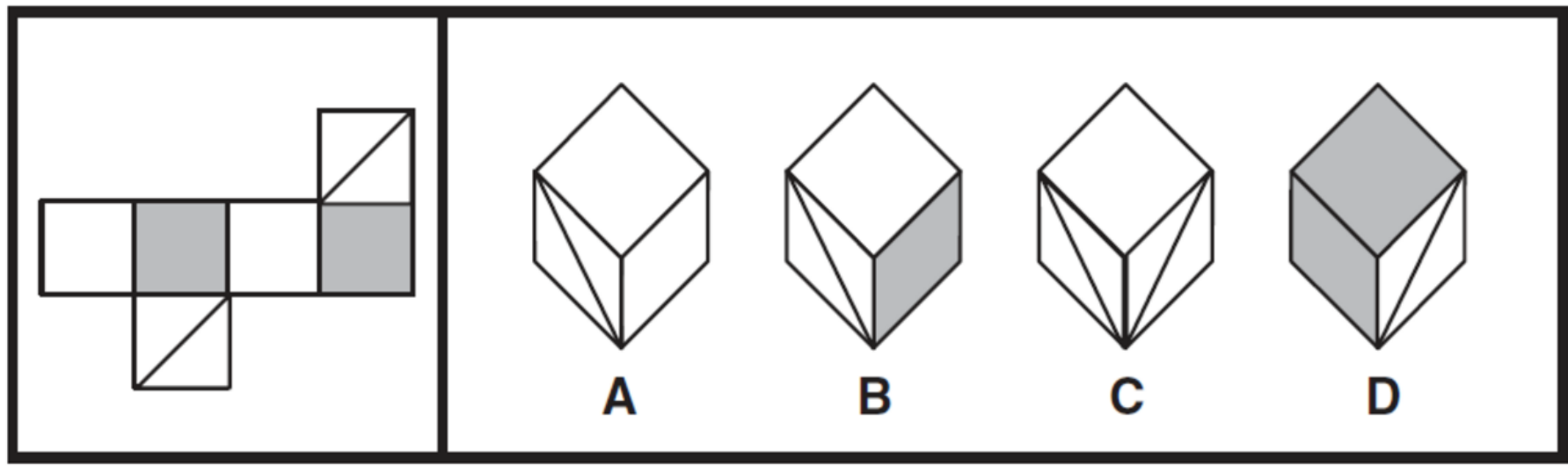
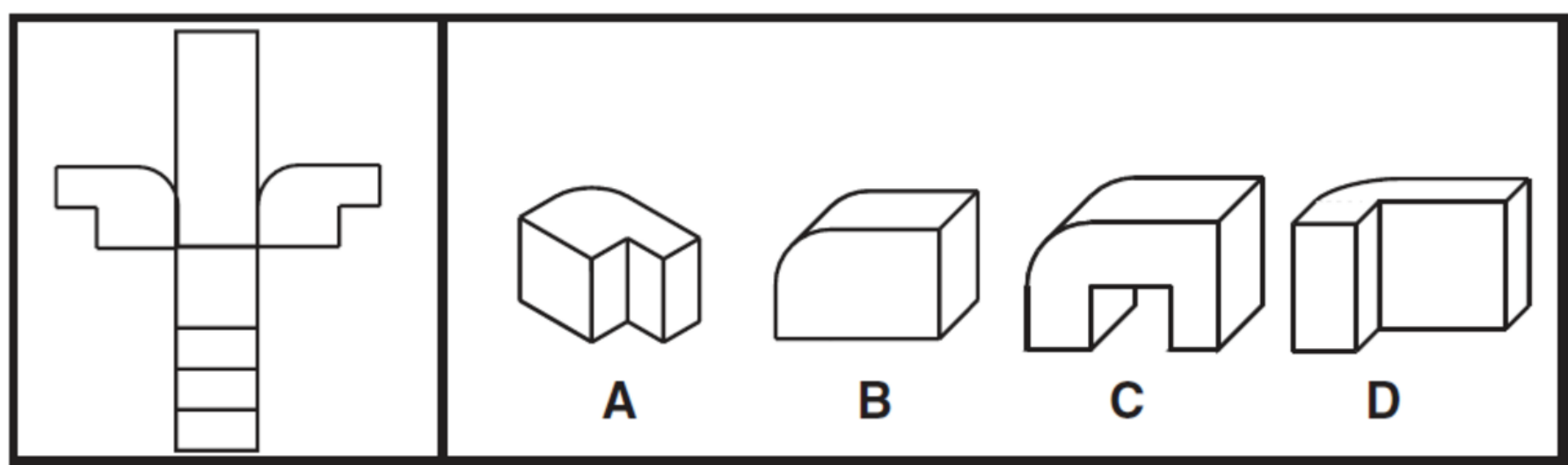
**Column B:** The top diagram shows a square with a dashed border. Inside, a solid line forms an inverted triangle with its base at the top. The bottom diagram is a 4x4 grid of 16 circles, with the top-right circle, middle-right circle, and bottom-left circle filled black.

**Column C:** The top diagram shows a square with a dashed border. Inside, a solid line forms a horizontal rectangle with a downward-pointing triangle below it. The bottom diagram is a 4x4 grid of 16 circles, with the top-right circle, middle-right circle, and bottom-left and bottom-right circles filled black.

**Column D:** The top diagram shows a square with a dashed border. Inside, a solid line forms a horizontal rectangle with a downward-pointing triangle below it, and a small black dot is located in the top-right corner of the rectangle. The bottom diagram is a 4x4 grid of 16 circles, with the top-right circle, middle-right circle, and bottom-right circle filled black.

**Column E:** The top diagram is identical to the one in column D. The bottom diagram is a 4x4 grid of 16 circles, with the top-right circle, middle-right circle, and the circle in the third row, fourth column filled black.

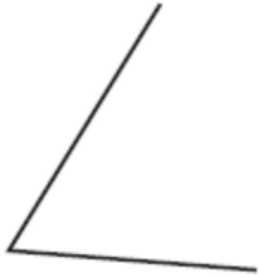
# Perceptual Ability



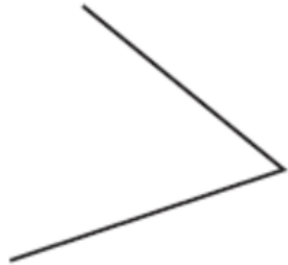
# Perceptual Ability



# Perceptual Ability



1



2



3



4

A. 3-2-1-4

B. 3-2-4-1

C. 4-3-1-2

D. 4-3-2-1

# Preparing for the Test

## DAT

### Dental Admissions Test

**Required for:**  
**Dentistry**

**Administered by:**  
ADA

#### **Classes students need to take:**

**BIS 2ABC** Introduction to Biology  
**CHE 2ABC** General Chemistry  
**CHE 118ABC** Organic Chemistry  
**STA 100** Statistics  
**NPB 101** Human Physiology  
**MAT 17ABC** Calculus

#### **Classes that may help:**

**BIS 101** Genes & Gene Expression  
**BIS 102 & 103 or 105** Biochemistry  
**BIS 104** Cell Biology  
**MIC 102** Microbiology  
**EXB 106** Human Gross Anatomy  
**EVE 100** Introduction to Evolution

# Preparing for the Test

- Timing
  - Practice Full Length Exams
- Regimen
  - Practice at actual test times w/ breaks
- Adaptability
  - Practice with minor distractions
  - Practice sitting at a computer in the cold

**Good luck!**