DAT 101

INFORMATION TAKEN FROM AMERICAN DENTAL ASSOCIATION WEBSITE

What is it?

- Dental Admission Test (DAT)
- Standardized test "designed to measure general academic ability, comprehension of scientific information, and perceptual ability"
- One of MANY factors considered in your dental school application

DAT Breakdown

- Survey of the Natural Sciences (100 items)
 - Biology (40)
 - o General Chemistry (30)
 - o Organic Chemistry (30)
- Perceptual Ability (50 items)
- Reading Comprehension (50 items)
- Quantitative Reasoning (40 items)

Testing Schedule

DAT Testing Schedule	
Optional Tutorial	15 minutes
Survey of Natural Sciences	90 minutes
Perceptual Ability Test	60 minutes
Optional Break	15 minutes
Reading Comprehension Test	60 minutes
Quantitative Reasoning Test	45 minutes
Optional Post Test Survey	15 minutes

DAT Scoring

- 1-30 for each section and an Academic Average
- 17 signifies average performance
- 19/20+ considered competitive
- Score report is given minutes after completion of test

Biology (50)

- Cell and Molecular Biology, Biological Organization and Relationship of Major Taxa, Structure and Function of Systems, Developmental Biology, Genetics, Evolution Ecology and Behavior
- Recommended courses: BIS 2 Series, BIS 101, NPB
 101

Biology

- Example DAT Question:
- Intracellular organelles that participate in metabolic oxidations involving H2O2 are called
 - A. centrioles
 - B. endoplasmic granules
 - C. peroxisomes
 - D. lysosomes
 - E. macrobodies

Correct Answer: C

General Chemistry (30)

- Stoichiometry and General Concepts, Liquids and Solids, Solutions, Acids and Bases, Chemical Equilibria, Thermodynamics and Thermochemistry, Chemical Kinetics, Oxidation-Reduction Reactions, Atomic and Molecular Structure, Periodic Properties, Nuclear Reactions, Laboratory
- Recommended Courses: CHE 2 Series

General Chemistry

- Example DAT Question:
- A substance is non-conducting as a solid and melts at 750°C. The melt conducts electricity. The solid is observed to be soluble in water. This substance would be best classified as
 - A. molecular
 - B. ionic
 - C. macromolecular
 - D. metallic
 - E. polymeric
 - Correct Answer: B

Organic Chemistry (30)

- Mechanisms, Chemical and Physical Properties of Molecules, Stereochemistry, Nomenclature, Acid-Base Chemistry, Aromatics and Bonding
- Recommended courses: CHE 118 Series

Organic Chemistry

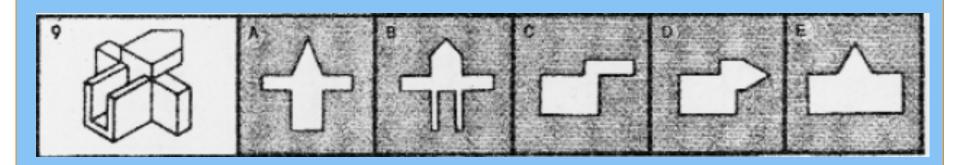
- Example Organic Chemistry Question:
- Which is the strongest base for an E2 reaction?
 - A. PhO
 - B. RCO₂-
 - C. HSe-
 - D. HS-
 - E. HO

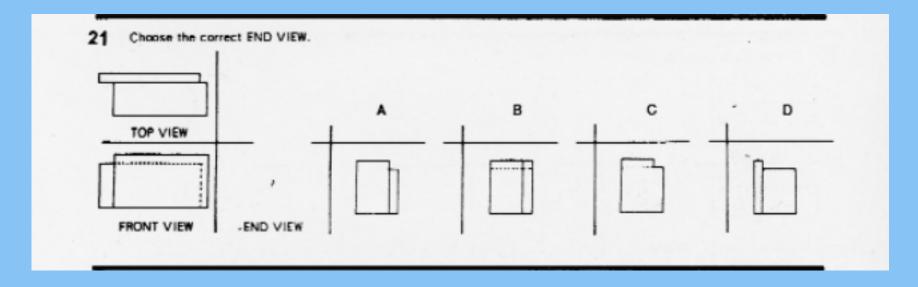
Correct Answer: E

Perceptual Ability (90)

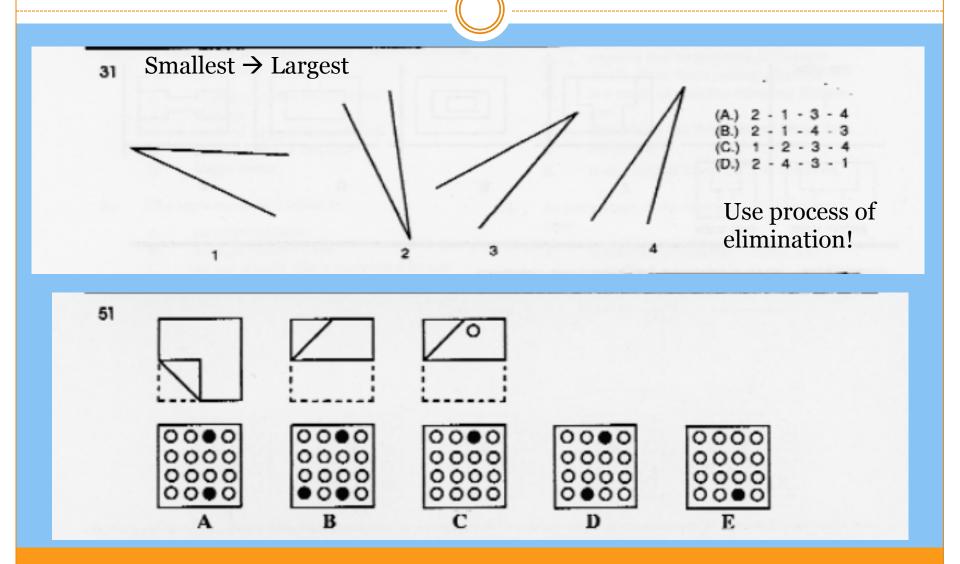
- Apertures
- View Recognition
- Angle Discrimination
- Paper Folding
- Cube Counting
- 3D Form Development
- Practice, practice, practice!

Apertures and View Recognition

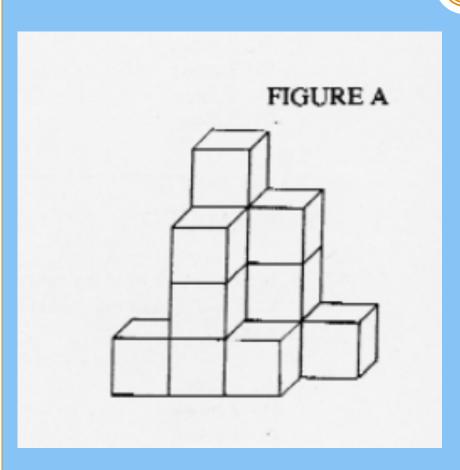




Angle Discrimination and Paper Folding



Cube Counting



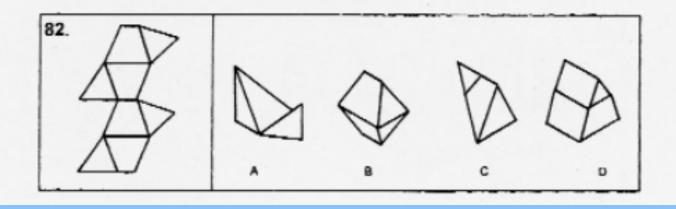
In Figure A, how many cubes have one of their exposed sides painted?

- A. 1 cube
- B. 2 cubes
- C. 3 cubes
- D. 4 cubcs
- E. 5 cubes

In Figure A, how many cubes have two of their exposed sides painted?

- A. 1 cube
- B. 2 cubcs
- C. 3 cubes
- D. 4 cubes
- E. 5 cubes

3-D Form Development

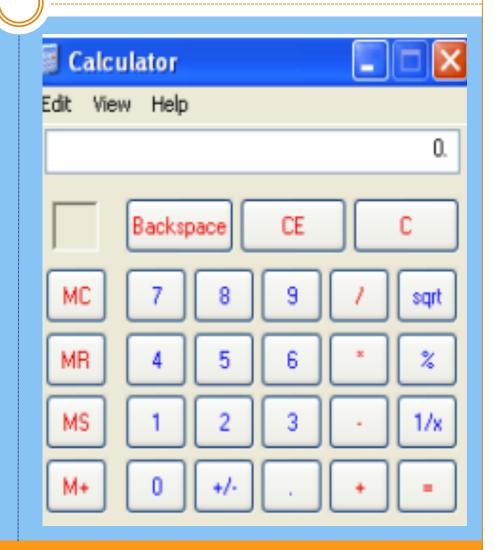


Reading Comprehension

- Three scientific reading passages
- Practice reading scientific articles and journals
- No prior knowledge on these topics are required

Quantitative Reasoning (40)

- Algebra, Numeric Calculations,
 Conversions, Probability and Statistics, Geometry,
 Trigonometry, Word Problems
- Equivalent to SAT Math



Quantitative Reasoning

• At a certain convention the ratio of men to women was 3 to 8. If there were 352 people there, how many were men?

A. 32

B. 96

C. 132

D. 220

E. 256

Correct Answer: B

 What is the maximum number of 3-inch squares that can be cut from a sheet of tin 19 x 23 inches?

A. 42

B. 48

C. 49

D. 145

E. 146

Correct Answer: A

Useful Resources

- Biology
 - AP Biology Cliff Notes
 - DAT Destroyer
- General Chemistry and Organic Chemistry
 - Chad's Videos
 http://
 www.coursesaver.com/
 videos/DAT/
 - DAT Destroyer

Any Suggestions?

- PAT
 - Crack the DAT: PAT
- Reading Comprehension
 - Crack the DAT: Reading Comprehension
- Quantitative Reasoning
 - DAT Destroyer/ Math Destroyer
- Practice Exams
 - TopScore
 - DAT Achiever

How to Sign Up

- 1. Obtain a DENTPIN from http://ada.org/dentpin.aspx
 - Must take DAT within 6 months of signing up for DENTPIN
 - Save your DENTPIN!
- 2. Apply to Test on www.ADA.org
- When application is approved, you will be sent eligibility information
- Schedule a test on www.prometric.com with eligibility information from ADA (atleast 24 hours after receiving eligibility)

On Test Day

- Bring 2 forms of Identification- Be sure it is not expired!
 - 1 government issued ID containing picture and signature (i.e. driver's license, passport)
 - 1 secondary ID with signature (i.e. debit card, library card, credit card)
 - Name on IDs must match exactly to name on DAT application
- Wear layers
- Bring ear plugs
- Bring a snack and water
- Turn off your cell phone!
- Arrive EARLY
- *Check to send DAT score to all dental schools— it's free and it doesn't hurt!

Tips: Studying for the DAT

- Establish a study routine/schedule
- Mimic test-like conditions (timing, no phones, neat scratch paper, computer testing)

Sources

• DAT Guide:

http://www.ada.org/sections/educationAndCareers/pdfs/dat_examinee_guide_2013.pdf

Sample Test:

http://www.ada.org/sections/educationandcareers/ pdfs/dat_test_sampleitems.pdf

http://www.ada.org/dat.aspx