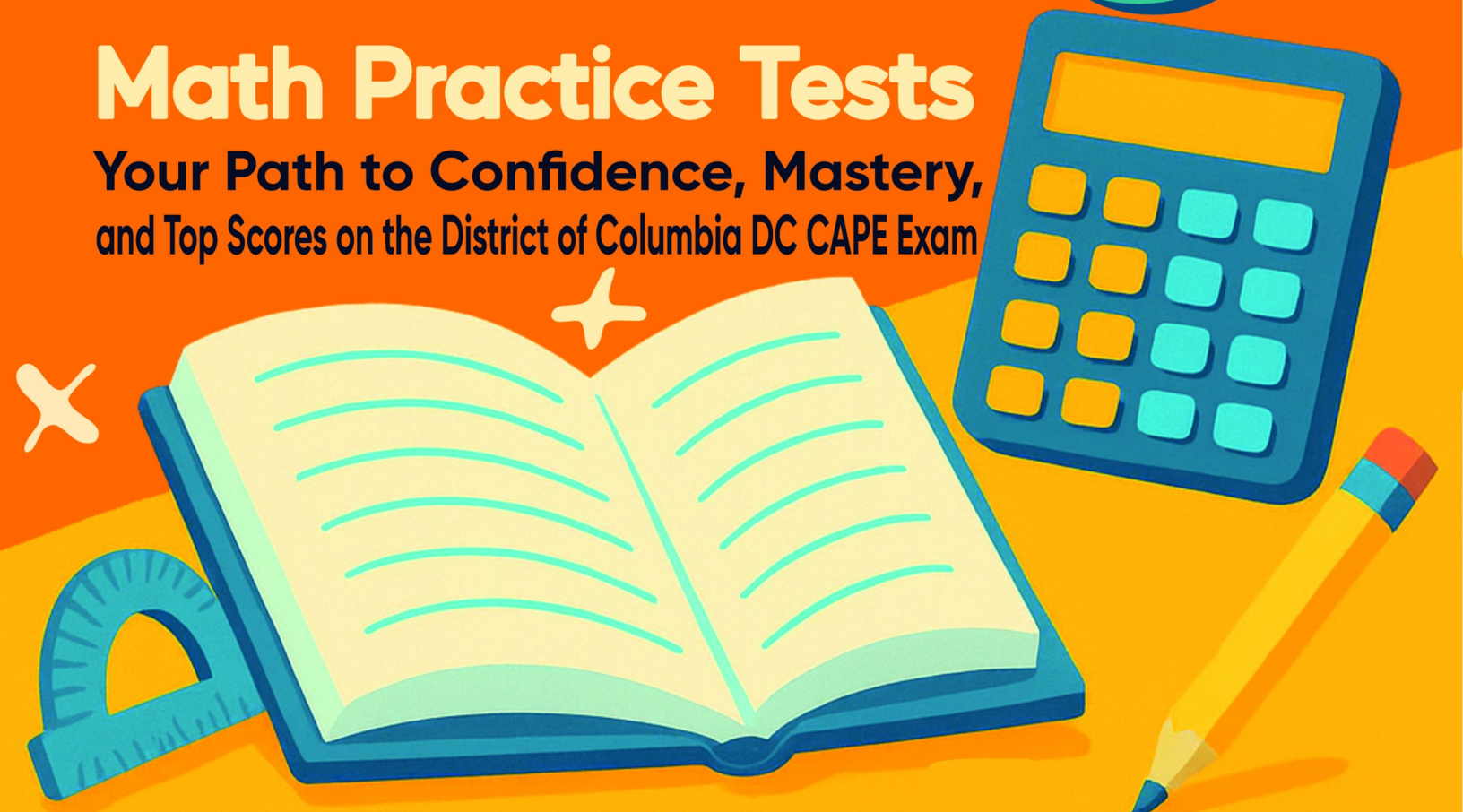
7 Full-Length District of Columbia DC CAPE Grade 5 Math Practice Tests

Your Path to Confidence, Mastery, and Top Scores on the District of Columbia DC CAPE Exam



Practice Master Achieve

Reza Nazari



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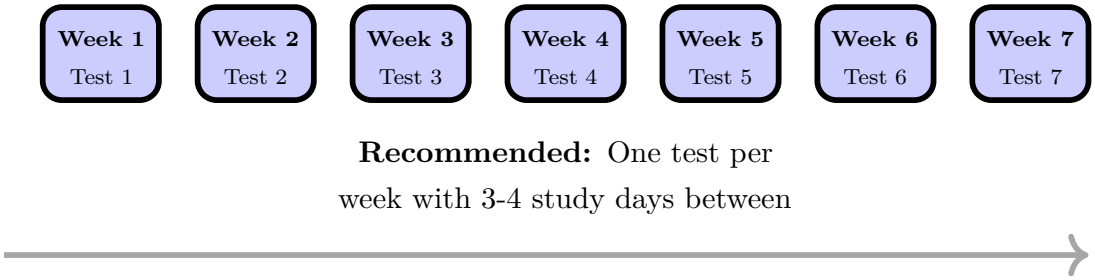
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Creating an Effective Study Schedule

Consistency matters more than intensity. Here's a recommended timeline:



Weekly Study Routine

Day 1 (Monday): Complete one practice test (60-90 minutes)
Day 2 (Tuesday): Check answers, identify areas needing work (30 minutes)
Day 3 (Wednesday): Study explanations for missed questions (45 minutes)
Day 4 (Thursday): Review concepts from missed problems (30 minutes)
Day 5 (Friday): Quick review of formulas and key concepts (20 minutes)
Weekend: Rest and light review only

How to Support Without Hovering

Your involvement is crucial, but independence builds confidence. Strike the right balance:

DO:

- Provide a quiet, well-lit study space
- Help establish and maintain the study schedule
- Celebrate effort and improvement, not just correct answers
- Review progress charts together weekly
- Ask "What did you learn today?" instead of "What did you get wrong?"
- Encourage perseverance when frustration arises

DON'T:

- Sit next to them during practice tests (defeats the purpose)
- Compare their progress to siblings or classmates
- Show disappointment over low scores
- Push them to complete all tests quickly
- Do the work for them when they struggle

Understanding the Explanations

Each test includes detailed explanations. Here's how to use them effectively:

1. **Let Students Read First:** Allow them to study explanations independently before offering help
2. **Ask Guiding Questions:** "What step confused you?" or "Can you explain this part to me?"
3. **Connect to Prior Knowledge:** "Remember when you learned about fractions in school? This uses that same idea."
4. **Encourage Note-Taking:** Have them write key strategies or formulas they learn
5. **Practice Similar Problems:** If they miss a concept, create 2-3 similar problems for extra practice

Addressing Common Challenges

Here's how to handle typical obstacles:

Challenge: "I'm Stupid at Math"

Response: "You're not stupid—you're learning! Everyone finds some topics challenging. Let's figure out which specific concept is tricky and practice that."
Action: Focus on growth mindset language. Praise effort and strategy use, not innate ability.

Challenge: Losing Motivation

Response: "I understand practice can feel repetitive. Let's look at your progress chart—see how much you've improved!"
Action: Break study into shorter sessions. Offer small rewards for completing tests. Make it visual and concrete.

Challenge: Test Anxiety

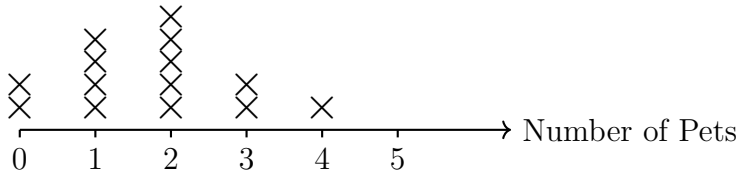
Response: "Feeling nervous is normal. Let's practice some breathing techniques and positive self-talk."
Action: Practice relaxation exercises. Gradually increase test conditions (timing, quiet room). Build confidence through success.

When to Seek Additional Help

Sometimes extra support is beneficial. Consider outside help if:

- Student shows no improvement after 3-4 tests
- Specific concept remains confusing despite explanation study
- Emotional distress about math persists

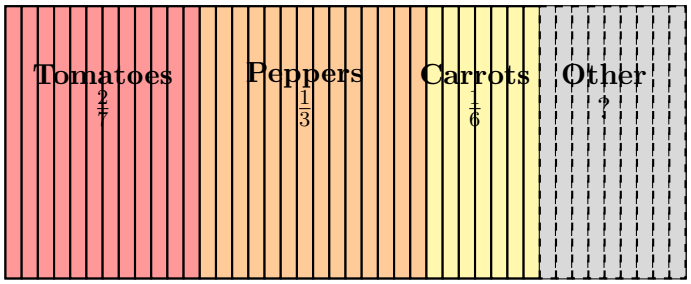
8) The line plot below shows the number of pets owned by students in Mrs. Johnson's class:



How many students in total are in Mrs. Johnson's class?

☐ A. 12 students
☐ B. 13 students
☐ C. 14 students
☐ D. 15 students

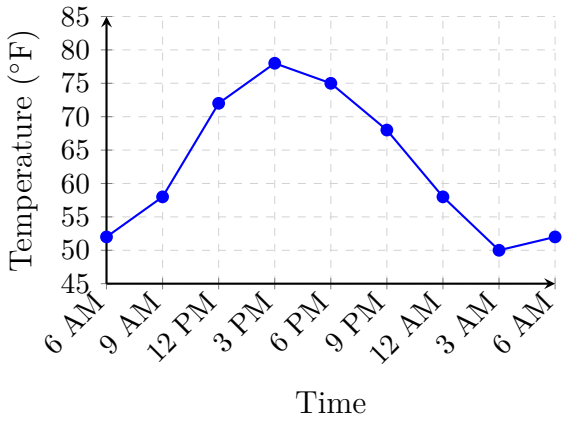
9) A rectangular garden bed is divided into sections. Tomatoes occupy $\frac{2}{7}$, peppers occupy $\frac{1}{3}$, and carrots occupy $\frac{1}{6}$. What fraction of the garden is left for other vegetables?



Garden Bed

☐ A. $\frac{1}{14}$
☐ B. $\frac{2}{14}$
☐ C. $\frac{3}{14}$
☐ D. $\frac{4}{14}$

10) The line graph shows the temperature changes throughout a day. During which time period did the temperature decrease at the fastest rate?



☐ A. 6 AM to 9 AM
☐ B. 9 AM to 12 PM
☐ C. 12 PM to 3 PM
☐ D. 9 PM to 12 AM

11) A manufacturing company produces widgets in batches. Each batch contains 144 widgets, and the company produces 8 batches per day. If the company operates 5 days per week for 3 weeks, how many widgets will be produced in total?

144 widgets (per batch) → 8 batches (per day) → 5 days/week × 3 weeks = ? widgets

Record your answer in the space provided.

12) A recipe calls for ingredients in the following amounts: 2.25 cups flour, 1.5 cups sugar, 0.75 cups butter, and 1.125 cups milk. If you want to make half the recipe, what is the total amount of ingredients needed in cups?

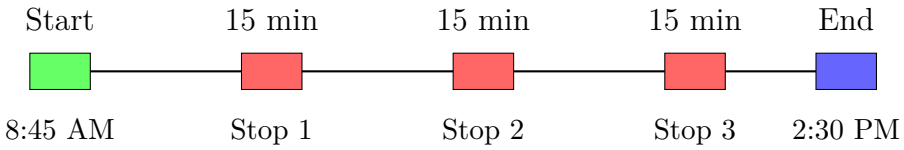
☐ A. 2.8125 cups
☐ B. 2.875 cups
☐ C. 2.9375 cups
☐ D. 3.0625 cups

13) What is the value of the expression: $4 \times (6 + 3) - 10 \div 2$?

☐ A. 18
☐ B. 21
☐ C. 26
☐ D. 31

14) A train leaves the station at 8:45 AM and arrives at its destination at 2:30 PM. The train makes three stops of 15 minutes each. What is the total travel time excluding stops?

Train Journey Timeline



☐ A. 5 hours
☐ B. 5 hours 15 minutes
☐ C. 5 hours 30 minutes
☐ D. 5 hours 45 minutes

15) Express 145% as a mixed number in simplest form.

☐ A. $1\frac{9}{20}$
☐ B. $1\frac{45}{100}$
☐ C. $1\frac{9}{25}$
☐ D. $1\frac{18}{50}$

16) A farmer has 125 apples and picks 87 more. He then sells 50 apples. How many apples does he have left?

☐ A. 152 apples
☐ B. 162 apples
☐ C. 172 apples
☐ D. 182 apples