



Texas Assessment of Knowledge and Skills - Answer Key

Grade: 03
Subject: Mathematics
Administration: April 2004

*Answer choices are not designated in the Grade 03 test booklet as "A," "B," "C," or "D." Instead, students respond to test items by marking the answer ovals in the test booklet. In some cases, mathematics answer choices for a test item are arranged in two columns. In this answer key, "A" and "B" represent the answer choices in the first column, and "C" and "D" represent the answers in the second column.

| Item Number | Correct Answer* | Objective Measured | Student Expectations |
|-------------|-----------------|--------------------|----------------------|
| 01 | B | 05 | 3.14 (C) |
| 02 | C | 02 | 3.6 (A) |
| 03 | D | 03 | 3.9 (C) |
| 04 | C | 01 | 3.2 (C) |
| 05 | C | 06 | 3.16 (B) |
| 06 | A | 05 | 3.14 (A) |
| 07 | C | 01 | 3.1 (B) |
| 08 | C | 04 | 3.12 (A) |
| 09 | B | 01 | 3.5 (B) |
| 10 | D | 01 | 3.4 (C) |
| 11 | D | 01 | 3.3 (B) |
| 12 | B | 06 | 3.16 (B) |
| 13 | C | 06 | 3.17 (A) |
| 14 | D | 01 | 3.3 (A) |
| 15 | C | 04 | 3.11 (B) |
| 16 | C | 02 | 3.7 (B) |
| 17 | B | 05 | 3.14 (C) |
| 18 | C | 02 | 3.6 (C) |
| 19 | D | 06 | 3.15 (C) |
| 20 | A | 06 | 3.17 (A) |
| 21 | 81 | 03 | 3.10 (A) |
| 22 | A | 06 | 3.15 (A) |
| 23 | B | 02 | 3.6 (B) |
| 24 | A | 01 | 3.3 (A) |
| 25 | A | 04 | 3.12 (B) |
| 26 | C | 06 | 3.15 (B) |
| 27 | D | 03 | 3.8 (A) |
| 28 | C | 06 | 3.15 (A) |
| 29 | D | 01 | 3.1 (C) |
| 30 | B | 03 | 3.10 (A) |
| 31 | C | 04 | 3.11 (A) |
| 32 | A | 01 | 3.2 (C) |
| 33 | D | 01 | 3.1 (A) |
| 34 | C | 04 | 3.13 (A) |
| 35 | C | 03 | 3.8 (A) |
| 36 | C | 02 | 3.7 (A) |
| 37 | B | 04 | 3.11 (C) |
| 38 | C | 02 | 3.6 (C) |
| 39 | D | 05 | 3.14 (B) |
| 40 | D | 03 | 3.9 (A) |

Grade 3 Mathematics

Refer to the *TAKS Information Booklet Mathematics Grades 3-6* for a more complete description of the objectives measured.

Objective 1: The student will demonstrate an understanding of numbers, operations, and quantitative reasoning.

- (3.1) **Number, operation, and quantitative reasoning.** The student uses place value to communicate about increasingly large whole numbers in verbal and written form, including money. The student is expected to
- (A) use place value to read, write (in symbols and words), and describe the value of whole numbers through 999,999;
 - (B) use place value to compare and order whole numbers through 9,999; and
 - (C) determine the value of a collection of coins and bills.
- (3.2) **Number, operation, and quantitative reasoning.** The student uses fraction names and symbols to describe fractional parts of whole objects or sets of objects. The student is expected to
- (B) compare fractional parts of whole objects or sets of objects in a problem situation using [concrete] models; and
 - (C) use fraction names and symbols to describe fractional parts of whole objects or sets of objects with denominators of 12 or less.
- (3.3) **Number, operation, and quantitative reasoning.** The student adds and subtracts to solve meaningful problems involving whole numbers. The student is expected to
- (A) model addition and subtraction using pictures, words, and numbers; and
 - (B) select addition or subtraction and use the operation to solve problems involving whole numbers through 999.
- (3.4) **Number, operation, and quantitative reasoning.** The student recognizes and solves problems in multiplication and division situations. The student is expected to
- (B) solve and record multiplication problems (one-digit multiplier); and
 - (C) use models to solve division problems and use number sentences to record the solutions.
- (3.5) **Number, operation, and quantitative reasoning.** The student estimates to determine reasonable results. The student is expected to
- (A) round two-digit numbers to the nearest ten and three-digit numbers to the nearest hundred; and
 - (B) estimate sums and differences beyond basic facts.

Grade 3 Mathematics (continued)

Objective 2: The student will demonstrate an understanding of patterns, relationships, and algebraic reasoning.

- (3.6) **Patterns, relationships, and algebraic thinking.** The student uses patterns to solve problems. The student is expected to
- (A) identify and extend whole-number and geometric patterns to make predictions and solve problems;
 - (B) identify patterns in multiplication facts using [concrete objects,] pictorial models, [or technology]; and
 - (C) identify patterns in related multiplication and division sentences (fact families) such as $2 \times 3 = 6$, $3 \times 2 = 6$, $6 \div 2 = 3$, $6 \div 3 = 2$.
- (3.7) **Patterns, relationships, and algebraic thinking.** The student uses lists, tables, and charts to express patterns and relationships. The student is expected to
- (A) generate a table of paired numbers based on a real-life situation such as insects and legs; and
 - (B) identify patterns in a table of related number pairs based on a real-life situation and extend the table.

Objective 3: The student will demonstrate an understanding of geometry and spatial reasoning.

- (3.8) **Geometry and spatial reasoning.** The student uses formal geometric vocabulary. The student is expected to
- (A) name, describe, and compare shapes and solids using formal geometric vocabulary.
- (3.9) **Geometry and spatial reasoning.** The student recognizes congruence and symmetry. The student is expected to
- (A) identify congruent shapes; and
 - (C) identify lines of symmetry in shapes.
- (3.10) **Geometry and spatial reasoning.** The student recognizes that numbers can be represented by points on a line. The student is expected to
- (A) locate and name points on a line using whole numbers [and fractions such as halves].

Objective 4: The student will demonstrate an understanding of the concepts and uses of measurement.

- (3.11) **Measurement.** The student selects and uses appropriate units and procedures to measure length and area. The student is expected to
- (A) estimate and measure lengths using standard units such as inch, foot, yard, centimeter, [decimeter,] and meter;

Grade 3 Mathematics (continued)

- (B) use linear measure to find the perimeter of a shape; and
 - (C) use [concrete] models of square units to determine the area of shapes.
- (3.12) **Measurement.** The student measures time and temperature. The student is expected to
- (A) tell and write time shown on traditional and digital clocks; and
 - (B) use a thermometer to measure temperature.
- (3.13) **Measurement.** The student applies measurement concepts. The student is expected to
- (A) measure to solve problems involving length, [area,] temperature, and time.

Objective 5: The student will demonstrate an understanding of probability and statistics.

- (3.14) **Probability and statistics.** The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to
- (A) [collect,] organize, record, and display data in pictographs and bar graphs where each picture or cell might represent more than one piece of data;
 - (B) interpret information from pictographs and bar graphs; and
 - (C) use data to describe events as more likely, less likely, or equally likely.

Objective 6: The student will demonstrate an understanding of the mathematical processes and tools used in problem solving.

- (3.15) **Underlying processes and mathematical tools.** The student applies Grade 3 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to
- (A) identify the mathematics in everyday situations;
 - (B) use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness; and
 - (C) select or develop an appropriate problem-solving strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem.
- (3.16) **Underlying processes and mathematical tools.** The student communicates about Grade 3 mathematics using informal language. The student is expected to
- (B) relate informal language to mathematical language and symbols.
- (3.17) **Underlying processes and mathematical tools.** The student uses logical reasoning to make sense of his or her world. The student is expected to
- (A) make generalizations from patterns or sets of examples and nonexamples.



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| Item Number | Correct Answer* | Objective Measured | Student Expectations |
|-------------|-----------------|--------------------|----------------------|
| 01 | C | 02 | 3.11 (I) |
| 02 | C | 02 | 3.11 (H) |
| 03 | A | 04 | 3.9 (F) |
| 04 | A | 01 | 3.7 (B) |
| 05 | B | 03 | 3.9 (C) |
| 06 | D | 03 | 3.11 (A) |
| 07 | C | 01 | 3.5 (E) |
| 08 | D | 01 | 3.7 (B) |
| 09 | B | 04 | 3.9 (F) |
| 10 | C | 01 | 3.9 (C) |
| 11 | D | 04 | 3.9 (F) |
| 12 | A | 02 | 3.11 (H) |
| 13 | B | 02 | 3.11 (H) |
| 14 | A | 03 | 3.9 (I) |
| 15 | C | 01 | 3.8 (D) |
| 16 | B | 01 | 3.9 (C) |
| 17 | A | 04 | 3.9 (F) |
| 18 | C | 01 | 3.7 (B) |
| 19 | C | 01 | 3.9 (H) |
| 20 | B | 01 | 3.9 (C) |
| 21 | B | 01 | 3.7 (B) |
| 22 | A | 04 | 3.10 (C) |
| 23 | C | 03 | 3.11 (A) |
| 24 | D | 02 | 3.11 (I) |
| 25 | B | 02 | 3.11 (H) |
| 26 | A | 01 | 3.7 (B) |
| 27 | D | 04 | 3.9 (F) |
| 28 | A | 01 | 3.9 (C) |
| 29 | C | 01 | 3.7 (B) |
| 30 | C | 04 | 3.9 (F) |
| 31 | C | 01 | 3.5 (E) |
| 32 | B | 03 | 3.9 (C) |
| 33 | A | 01 | 3.5 (E) |
| 34 | B | 02 | 3.11 (H) |
| 35 | D | 04 | 3.9 (F) |
| 36 | A | 03 | 3.11 (A) |

Grade 3 Reading

Refer to the *TAKS Information Booklet* [Reading Grades 3-6](#) for a more complete description of the objectives measured.

Objective 1: The student will demonstrate a basic understanding of culturally diverse written texts.

- (3.5) **Reading/word identification.** The student uses a variety of word identification strategies. The student is expected to
- (D) use root words and other structural cues such as prefixes, suffixes, and derivational endings to recognize words (3); and
 - (E) use knowledge of word order (syntax) and context to support word identification and confirm word meaning (1-3).
- (3.7) **Reading/variety of texts.** The student reads widely for different purposes in varied sources. The student is expected to
- (B) read from a variety of genres [for pleasure and] to acquire information [from both print and electronic sources] (2-3).
- (3.8) **Reading/vocabulary development.** The student develops an extensive vocabulary. The student is expected to
- (C) use [resources and references such as beginners' dictionaries, glossaries, available technology, and] context to build word meanings and to confirm pronunciations of words (2-3); and
 - (D) demonstrate knowledge of synonyms, antonyms, and multi-meaning words [for example, by sorting, classifying, and identifying related words] (3).
- (3.9) **Reading/comprehension.** The student uses a variety of strategies to comprehend selections read aloud and selections read independently. The student is expected to
- (C) retell [or act out the order of] important events in stories (K-3); and
 - (H) produce summaries of text selections (2-3).

Objective 2: The student will apply knowledge of literary elements to understand culturally diverse written texts.

- (3.11) **Reading/text structures/literary concepts.** The student analyzes the characteristics of various types of texts. The student is expected to
- (H) analyze characters, including their traits, feelings, relationships, and changes (1-3);
 - (I) identify the importance of the setting to a story's meaning (1-3); and
 - (J) recognize the story problem(s) or plot (1-3).

Grade 3 Reading (continued)

Objective 3: The student will use a variety of strategies to analyze culturally diverse written texts.

- (3.9) **Reading/comprehension.** The student uses a variety of strategies to comprehend selections read aloud and selections read independently. The student is expected to
- (C) retell [or act out] the order of important events in stories (K-3); and
 - (I) represent text information in different ways, including story maps, graphs, and charts (2-3).
- (3.11) **Reading/text structures/literary concepts.** The student analyzes the characteristics of various types of texts. The student is expected to
- (A) distinguish different forms of texts, including lists, newsletters, and signs and the functions they serve (K-3); and
 - (C) recognize the distinguishing features of familiar genres, including stories, [poems], and informational texts (1-3).

Objective 4: The student will apply critical-thinking skills to analyze culturally diverse written texts.

- (3.9) **Reading/comprehension.** The student uses a variety of strategies to comprehend selections read aloud and selections read independently. The student is expected to
- (F) make and explain inferences from texts such as determining important ideas, causes and effects, making predictions, and drawing conclusions (1-3); and
 - (J) distinguish fact from opinion in various texts, including news stories and advertisements (3).
- (3.10) **Reading/literary response.** The student responds to various texts. The student is expected to
- (C) support interpretations or conclusions with examples drawn from text (2-3).