



# **MATHEMATICS**

## **Grade 3**

**Multiple Choice Questions**  
for  
**TEKS assessed on TAKS**  
and

**Assessment Questions**  
for  
**TEKS not assessed on TAKS**

**Organized by TEKS**

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# GRADE 3 MULTIPLE-CHOICE QUESTIONS ORGANIZED BY TEKS

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### TAKS Objective 1

**The student will demonstrate an understanding of numbers, operations and quantitative reasoning.**

TEKS	Student Expectation	Number of Questions
3.1A	Use place value to read, write (in words and in symbols), and describe the value of whole numbers through 999,999	30
3.1B	Use place value to compare and order whole numbers through 9,999	26
3.1C	Determine the value of a collection of coins and bills	14
3.2A	Construct concrete models of fractions <b>(Not assessed on TAKS)</b>	11
3.2B	Compare fractional parts of whole objects or sets of objects in a problem situation using concrete models	13
3.2C	Use fractions names and symbols to describe fractions parts of whole objects or sets of objects	13
3.2D	Construct concrete models of equivalent fractions for fractional parts of whole numbers <b>(Not assessed on TAKS)</b>	10
3.3A	Model addition and subtraction using pictures, words, and numbers	26
3.3B	Select addition or subtractions and use the operation to solve problems involving whole numbers through 999	23
3.4A	Learn and apply multiplication facts through 12 by 12 using concrete models and objects <b>(Not assessed on TAKS)</b>	10
3.4B	Solve and record multiplication problems (up to two digits times one digit)	16
3.4C	Use models to solve division problems and use number sentences to record the solutions	13
3.5A	Round whole numbers to the nearest ten or hundred to approximate reasonable results in problem situations	19
3.5B	Use strategies including rounding and compatible numbers to estimate solutions to additions and subtraction problems	28

### TAKS Objective 2

**The student will demonstrate an understanding of patterns, relationships and algebraic reasoning.**

TEKS	Student Expectation	Number of Questions
3.6A	Identify and extend whole-number and geometric patterns to make predictions and solve problems	23
3.6B	Identify patterns in multiplication facts using concrete objects, pictorial models, or technology	17
3.6C	Identify patterns in related multiplication and division sentences (fact families) such as $2 \times 3 = 6$ , $3 \times 2 = 6$ , $6 \div 2 = 3$ , $6 \div 3 = 2$	16
3.7A	Generate a table of paired numbers based on a real-life situation such as insects and legs	16
3.7B	Identify and describe patterns in a table of related number pairs based on a meaningful problem and extend the table	20

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### TAKS Objective 3

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

TEKS	Student Expectation	Number of Questions
3.8	Identify, classify, and describe two- and three-dimensional geometric figures by their attributes. Compare two-dimensional figures, three-dimensional figures, or both by their attributes using formal geometric vocabulary	46
3.9A 3.9B	Identify congruent two-dimensional figures Create two-dimensional figures with lines of symmetry using concrete models and technology <b>(Not assessed on TAKS)</b>	14
3.9C	Identify lines of symmetry in two-dimensional geometric figures	14
3.10	Locate and name points on a number line using whole numbers and fractions, including halves and fourths	30

### TAKS Objective 4

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

TEKS	Student Expectation	Number of Questions
3.11A	Use linear measurement tools to estimate and measure lengths using standard units	22
3.11B	Use standard units to find the perimeter of a shape	16
3.11C	Use concrete and pictorial models of square units to determine the area of two-dimensional surfaces	14
3.11D	Identify concrete models that approximate standard units of weight/mass and use them to measure weight/mass <b>(Not assessed on TAKS)</b>	11
3.11E	Identify concrete models that approximate standard units for capacity and use them to measure capacity <b>(Not assessed on TAKS)</b>	10
3.11F	Use concrete models that approximate cubic units to determine the volume of a given container or other three-dimensional figure <b>(Not assessed on TAKS)</b>	10
3.12A	Use a thermometer to measure temperature	15
3.12B	Tell and write time shown on analog and digital clocks	17

### TAKS Objective 5

The student will demonstrate an understanding of probability and statistics.

TEKS	Student Expectation	Number of Questions
3.13A	Collect, organize, record, and display data in pictographs and bar graphs where each picture or cell might represent more than one piece of data	21
3.13B	Interpret information from pictographs and bar graphs	24
3.13C	Use data to describe events as more likely than, less likely than, or equally likely as	22

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### TAKS Objective 6

The student will demonstrate an understanding of the mathematical processes used in problem solving.

TEKS	Student Expectation	Number of Questions
3.14A	Identify the mathematics in everyday situations	18
3.14B	Solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness	16
3.14C	Select or develop an appropriate problem-solving plan or 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	21
3.14D	Use tools such as real objects, manipulatives, and technology to solve problems <b>(Not assessed on TAKS)</b>	
3.15A	Explain and record observations using objects, words, pictures, numbers, and technology <b>(Not assessed on TAKS)</b>	
3.15B	Relate informal language to mathematical language and symbols	18
3.16A	Make generalizations from patterns or sets of examples and nonexamples	20
3.16B	Justify why an answer is reasonable and explain the solution process <b>(Not assessed on TAKS)</b>	

**TOTAL GRADE 3 MULTIPLE CHOICE QUESTIONS = 723**

The student is expected to use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems.

The table below shows how many hot dogs and hamburgers were sold to each of three grades at the school cafeteria this week.

### Hot Dog and Hamburger Sales

	Hot Dogs	Hamburgers
Grade 3	136	43
Grade 4	47	92
Grade 5	68	98

About how many hamburgers were sold to all three grades this week? Mark your answer.

- 120  
 130  
 220  
 230

Martine sold 31 tickets to the school carnival. Paul sold 88 tickets. Which is the best estimate of how many more tickets Paul sold than Martine? Mark your answer.

- 120  
 60  
 50  
 40

Mr. Romano picked 83 pounds of apples yesterday. Today he picked 94 pounds of apples. Which is the best estimate of the total number of pounds of apples he picked in the two days? Mark your answer.

- Less than 100 lbs  
 Between 100 and 150 lbs  
 Between 150 and 200 lbs  
 More than 200 lbs

There are 529 students at Miller Elementary School. On Tuesday 122 third grade students went on a field trip. About how many students did not go on a field trip? Mark your answer.

- 700  
 600  
 500  
 400

The table below shows the kinds of pizza slices sold in the school cafeteria last week.

### Pizza Slice Sales

	Cheese	Hamburger
Grade 3	97	106
Grade 4	91	67
Grade 5	58	149

About how many more slices of cheese than hamburger were sold to grade 4 students? Mark your answer.

- 20  
 30  
 150  
 160

Sean has \$154. Then he earned \$139 mowing lawns. He decided to put all of his money in a savings account at the bank. About how much money did he put in the savings account? Mark your answer.

- Less than \$100  
 Between \$100 and \$200  
 Between \$200 and \$300  
 More than \$300

The student is expected to use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems.

Mr. Lance sold 27 packages of gift wrap on Tuesday, 38 packages on Wednesday, and 12 packages on Thursday. Which is the best estimate of the number of packages of gift wrap he sold in all three days? Mark your answer.

- 40
- 60
- 70
- 80

Lupe needs 173 nails to build a birdhouse and 338 nails for a scout project. Which is the best estimate of the number of nails Lupe needs to complete the birdhouse and the scout project? Mark your answer.

- 200
- 300
- 400
- 500

The table below shows the number of rocks and shells collected by student teams for a science project.

Rock and Shell Collections

Team	Rocks	Shells
Cerina's Team	159	133
Eric's Team	146	62
Jeff's Team	73	196

About how many more shells than rocks were collected by Jeff's Team? Mark your answer.

- 270
- 30
- 130
- 20

Ellen bought skates for \$49, a helmet for \$37, knee pads for \$16, and elbow pads for \$13. About how much did she spend? Mark your answer.

- \$90
- \$100
- \$120
- \$130

Felipe had a collection of 582 soccer cards. He sold 258 of them at a hobby show. About how many does he have left? Mark your answer.

- 100
- 200
- 300
- 400

Dennis has read 38 pages of his book. The book has 96 pages. What would be the best way to estimate how many pages Dennis must read to finish the book? Mark your answer.

- $90 - 30$
- $90 - 40$
- $100 - 30$
- $100 - 40$

The student is expected to use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems.

Jesse and his family drove 383 miles on Friday and 235 miles farther on Saturday. What is the best estimate of the distance traveled altogether? Mark your answer.

- 800 mi  
 600 mi  
 500 mi  
 400 mi

The third grade had a holiday canned food drive. Mrs. Dennis' class collected 76 cans. Mr. James' class collected 371 cans. Mrs. Paul's class collected 459 cans. About how many cans did all 3 classes collect? Mark your answer.

- 770  
 880  
 910  
 1,010

Julio weighs 73 pounds. His brother Donnie weighs 48 pounds. About how much do the 2 boys weigh together? Mark your answer.

- Between 50 and 80 pounds  
 Between 80 and 110 pounds  
 Between 110 and 140 pounds  
 Between 140 and 170 pounds

There were 97 students on the school bus. At the elementary school, 67 students got off the bus. What is the best estimate of the number of students still on the bus?

Record your answer in the boxes below. Then fill in the bubbles. Be sure to use the correct place value.

<input type="radio"/> 0	<input type="radio"/> 0
<input type="radio"/> 1	<input type="radio"/> 1
<input type="radio"/> 2	<input type="radio"/> 2
<input type="radio"/> 3	<input type="radio"/> 3
<input type="radio"/> 4	<input type="radio"/> 4
<input type="radio"/> 5	<input type="radio"/> 5
<input type="radio"/> 6	<input type="radio"/> 6
<input type="radio"/> 7	<input type="radio"/> 7
<input type="radio"/> 8	<input type="radio"/> 8
<input type="radio"/> 9	<input type="radio"/> 9

There were 828 people at the high school basketball game. At half time, 276 people bought a cold drink. What is the best estimate of the number of people who did not buy a cold drink at half time? Mark your answer.

- 300  
 400  
 500  
 800

Frank saved 389 quarters. Hannah saved 526 quarters. Which is the best way to estimate the number of quarters they have saved altogether? Mark your answer.

- $400 + 500$   
  $400 + 600$   
  $300 + 500$   
  $300 + 600$

The student is expected to use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems.

Patrick counted the number of bicycles in the 2 bicycle racks at the bicycle races. The first rack had 57 bicycles. The second rack had 92 bicycles. What is the best estimate of how many more bicycles were in the second rack than were in the first rack? Mark your answer.

- 30
- 40
- 140
- 150

The highest point in Maxwell County is 885 feet above sea level. The lowest point is 408 above sea level. Which is the best estimate of the difference between the highest point and the lowest point? Mark your answer.

- 1300 ft
- 1200 ft
- 500 ft
- 300 ft

A biography book from the library contains 73 pages. A science book contains 198 pages. Which is the best estimate of how many fewer pages the biography book has than the science book? Mark your answer.

- Less than 100
- Between 100 and 120
- Between 120 and 140
- More than 140

Clara saved \$98 for a new bicycle. This amount was \$37 more than her brother Carl had saved. Which is the best estimate of the amount of money that Carl had saved? Mark your answer.

- \$50
- \$60
- \$100
- \$140

Julio delivers 186 newspapers on his paper route each weekday. On Saturdays he delivers 324 newspapers. Which is the best estimate of how many more newspapers Julio delivers on Saturday than on a weekday? Mark your answer.

- 400
- 300
- 200
- 100

Marshall's father planted 275 peach trees, 120 apple trees, and 317 plum trees in his fruit tree orchard. Which is the best estimate of the total number of trees in his fruit tree orchard? Mark your answer.

- Less than 600
- Between 600 and 800
- Between 800 and 1,000
- More than 1,000

The student is expected to use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems.

The school cafeteria sells soup and salads on Monday, Wednesday, and Friday. The table below shows the sales for one week.

	Soup	Salad
Monday	88	44
Wednesday	54	72
Friday	42	56

About how many bowls of salad were sold that week? Mark your answer.

- 160  
 180  
 170  
 190

Three students collect aluminum soda cans for recycling. The table below shows the number of cans they collected in one week.

Student	Number of Cans
Monica	131
Jesse	154
Tim	148

About how many cans were collected by the three students that week? Mark your answer.

- 280  
 330  
 420  
 430

The librarian keeps a record of how many books the third grade class reads each month.

Month	Number of Books Read
October	127
November	143
December	86

About how many more books were read during October than during December? Mark your answer.

- 30  
 40  
 50  
 220

During a science experiment, students put ice in a plastic cup. The ice was  $32^{\circ}\text{F}$  when it was put into the cup. Three hours later, the ice had melted and the water in the cup was  $57^{\circ}\text{F}$ . Which number sentence shows the best way to estimate how many degrees the temperature changed? Mark your answer.

- $50 - 40 = 10$   
  $60 - 30 = 30$   
  $30 + 50 = 80$   
  $40 + 60 = 100$