Grade 4 Mathematics STAAR 2022-2023

#	Format	Content	TEK
1	Multiple Choice	Geometry (2D shapes, symmetry, angles)	4.3.6.B identify and draw one or more lines of symmetry, if they exist, for a two-dimensional figure;
2	Multiple Choice	Place Value	4.3.2.B represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals;
3	Multiple Choice	Multiplication and Division	4.2.4.D use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number by a two-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties;
4	Multiselect	Place Value	4.1.2.A interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left;
5	Multiple Choice	One- and Multi-Step Word Problems	4.2.5.A represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity;
6	Multiple Choice	One- and Multi-Step Word Problems	4.3.8.C solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate.
7	Multiple Choice	Input-Output Tables	4.2.5.B represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence;
8	Multiselect	Compare Fractions	4.1.3.D compare two fractions with different numerators and different denominators and represent the comparison using the symbols >, =, or <;
9	Multiple Choice	Geometry (2D shapes, symmetry, angles)	4.3.6.D classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size.
10	Multiple Choice	Data Analysis	4.4.9.A represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions; and
11	Multiple Choice	Perimeter and Area	4.3.5.D solve problems related to perimeter and area of rectangles where dimensions are whole numbers.
12	Drag and Drop	Multiplication and Division	4.2.4.E represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations;
13	Inline Choice	Place Value	4.1.2.G relate decimals to fractions that name tenths and hundredths; and
14	Multiple Choice	Addition and Subtraction with Decimals	4.2.4.A add and subtract whole numbers and decimals to the hundredths place using the standard algorithm;
15	Multiple Choice	Compare and Decompose Fractions	4.1.3.B decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations;

16	Multiple Choice	Computation with Fractions	4.2.3.F evaluate the reasonableness of sums and differences of fractions using benchmark fractions 0, 1/4, 1/2, 3/4, and 1, referring to the same whole; and
17	Multiselect	Place Value	4.1.2.B represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals;
18	Multiple Choice	One- and Multi-Step Word Problems	4.2.5.A represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity;
19	Multiple Choice	Personal Financial Literacy	4.4.10.A distinguish between fixed and variable expenses;
20	Drag and Drop	Multiplication and Division	4.2.4.C represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect squares through 15 by 15;
21	Inline Choice	Geometry (2D shapes, symmetry, angles)	4.3.6.C apply knowledge of right angles to identify acute, right, and obtuse triangles; and
22	Multiple Choice	Multiplication and Division	4.2.4.F use strategies and algorithms, including the standard algorithm, to divide up to a fourdigit dividend by a one-digit divisor;
23	Multiple Choice	One- and Multi-Step Word Problems	4.3.8.C solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate.
24	Multiple Choice	Data Analysis	4.4.9.A represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions; and
25	Multiselect	Geometry (2D shapes, symmetry, angles)	4.3.7.C determine the approximate measures of angles in degrees to the nearest whole number using a protractor;
26	Multiple Choice	Compare and Decompose Fractions	4.1.3.D compare two fractions with different numerators and different denominators and represent the comparison using the symbols >, =, or <;
27	Multiple Choice	One- and Multi-Step Word Problems	4.2.4.H solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.
28	Multiple Choice	Place Value	4.1.2.G relate decimals to fractions that name tenths and hundredths; and
29	Equation Editor	Computation with Fractions	4.2.3.E represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations;
30	Multiple Choice	Measurement	4.3.8.A identify relative sizes of measurement units within the customary and metric systems;
31	Multiple Choice	Personal Financial Literacy	4.4.10.E describe the basic purpose of financial institutions, including keeping money safe, borrowing money, and lending
32	Multiple Choice	Perimeter and Area	4.3.5.D solve problems related to perimeter and area of rectangles where dimensions are whole numbers.

Frequency of Question Formats
Grade 4 2022-2023
Mathematics STAAR
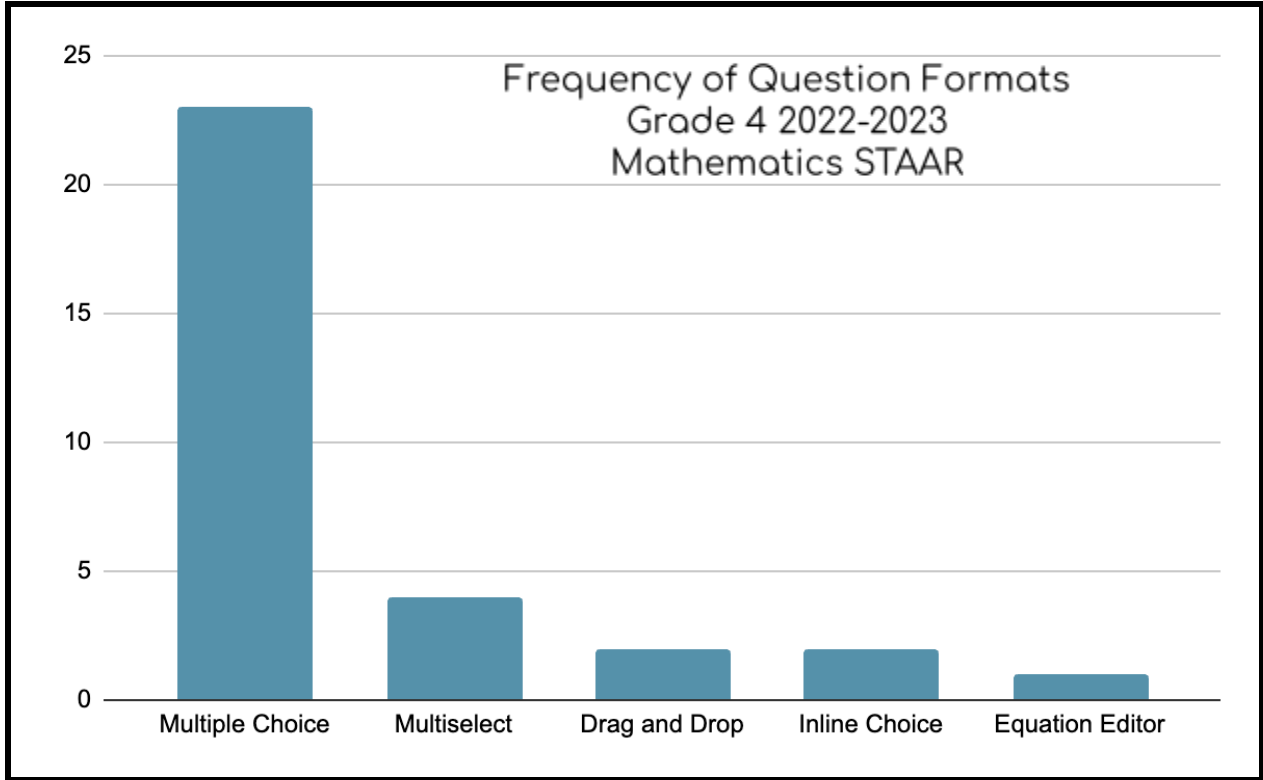
Content on the Grade 4 STAAR (2022-2023)

Category	Value
Place Value	6
One- and Multi-Step Word Problems	5
Multiplication & Division	4
Addition and Subtraction with Decimals	1
Compare and Decompose Fractions	3
Computation with Fractions	2
Data Analysis	2
Geometry (2D shapes, symmetry, angles)	4
Personal Financial Literacy	2
Perimeter and Area	1
Input Output Tables	1
Measurement	1
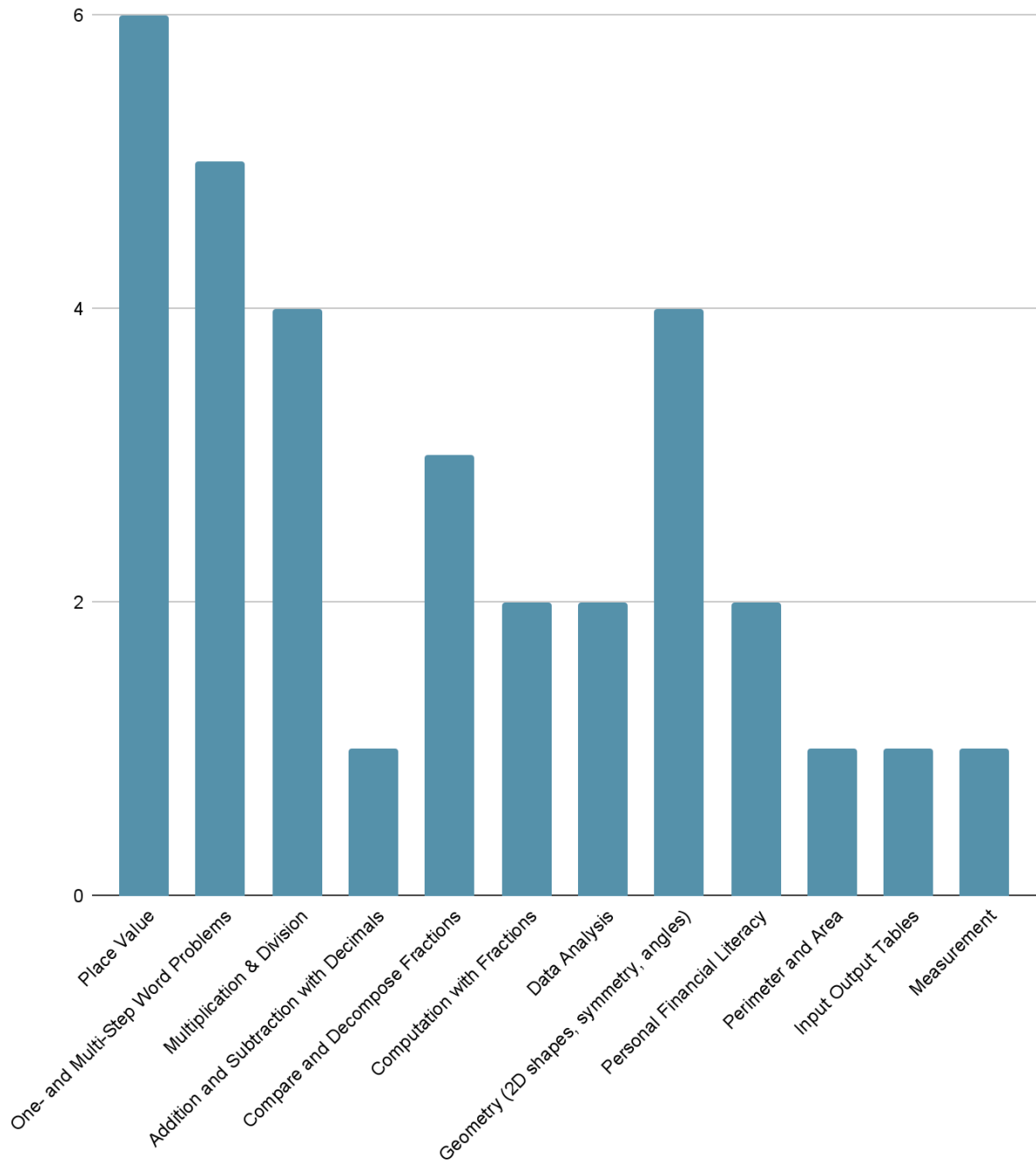
Multiple Choice

1

GUEST, GUEST
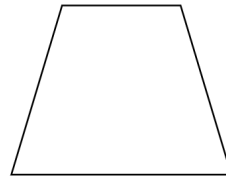
Three shapes are shown.
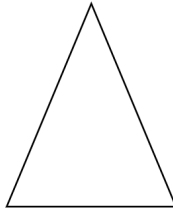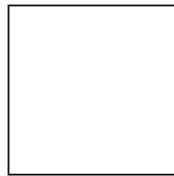
Shape J   Shape K   Shape L

Which shapes appear to have only one line of symmetry?

- Ⓐ Shape K only
- Ⓑ Shapes K and L only
- Ⓒ Shape J only
- Ⓓ Shapes J and L only

Multiselect

4

GUEST, GUEST

A store sold 2,222 items in one day.

Which statements about this number are true?

Select **TWO** correct answers.

- ☐ The value of the digit in the tens place is $\frac{1}{10}$ the value of the digit in the hundreds place.
- ☐ The value of the digit in the hundreds place is 10 times the value of the digit in the thousands place.
- ☐ The value of the digit in the thousands place is 10 times the value of the digit in the hundreds place.
- ☐ The value of the digit in the hundreds place is $\frac{1}{10}$ the value of the digit in the tens place.
- ☐ The value of the digit in the ones place is 10 times the value of the digit in the tens place.

Drag and Drop

Mr. Hanson picked 625 apples from his orchard. He put the apples into 5 containers. Each container has the same number of apples in it.

Create an equation that could be used to show how many apples are in each container.

Move the correct answer to each box. Not all answers will be used.

| 625 × 5 | 625 − 5 | 625 ÷ 5 | 625 + 5 | 125 | 620 | 630 | 3,125 |

[_____] = [_____]

Inline Choice
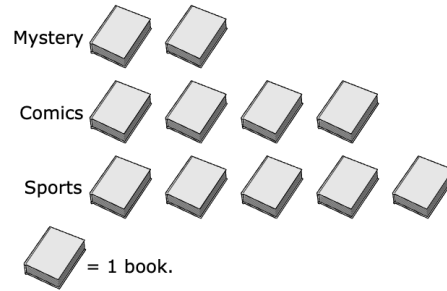
Create a mixed number equivalent to the decimal by selecting the correct answers from the drop-down menus.

$$79.04 = \frac{\boxed{\quad}}{\boxed{\quad}}$$

- ✓
- 79
- 7,900
- 7,904

The number of each type of book in Jaxon's bookshelf is shown.

Mystery

Comics

Sports

= 1 book.
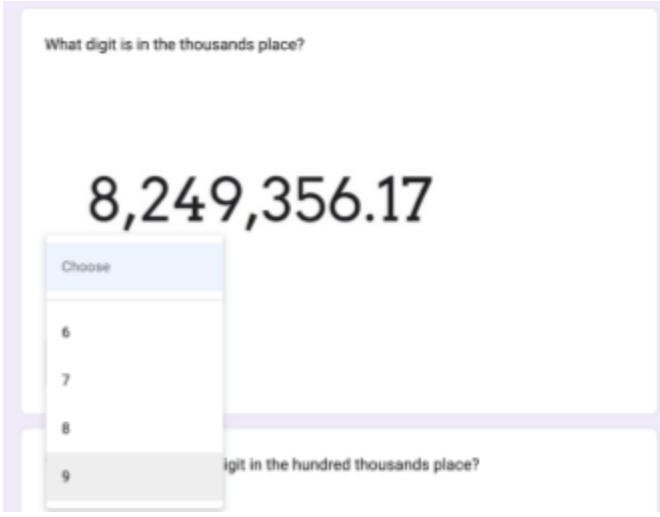
What fraction of the books are mystery or sports books?

Enter your answer in the space provided.

1	2	3
4	5	6
7	8	9
0	.	□/□

Online Activities		
Question Format	**Content**	**Link and Description**
Multiple Choice	Geometry (2D shapes, symmetry, angles)	➜ [Mr. Nussbaum Acute, Obtuse, and Right Angles](#) ➜ [Mr. Nussbaum Lines of Symmetry](#)
Multiselect	Compare and Decompose Fractions	➜ Create a comparing fractions exit ticket using [Google Forms](#). When you add questions, select the "checkboxes" format. Which two fractions are less than 3/4? ☐ 5/6 ☑ 1/4 ☑ 5/8 ☐ 6/10
Drag and Drop	Word Problems & Computation with Fractions	[Thinking Blocks Fractions](#) ➜ "Same Denominators" - *Add or subtract fractions with like denominators* ➜ "Unlike Denominators" - *Add or subtract fractions with unlike denominators*
	Word Problems & Multiplication/ Division	[Thinking Blocks Multiplication](#) ➜ "Parts and Whole" - *Equal groups schema; multiply and divide whole numbers* ➜ "Missing Parts" - *Equal groups schema; divide whole numbers* ➜ "1 Step Compare" - *Set/comparison problems* ➜ "Compare - Total" - *Multi-step problems; set/comparison and total schemas* ➜ "Compare - Difference" - *Multi-step problems; set/comparison and difference schemas* ➜ "2 Operations" and "Three Quantities"- *Multi-step problems; add, subtract, multiply, and divide whole numbers*

Inline Choice	Place Value	➜ Create a place value exit ticket using [Google Forms](). When you add questions, select the "dropdown" format. What digit is in the thousands place? **8,249,356.17** Choose 6 7 8 9 ...git in the hundred thousands place?
Equation Editor	Addition and Subtraction with Decimals	[Mr. Nussbaum Lunch Lady Game]() ➜ *Add three numbers up to the hundredths place (dollars and cents); enter the answer using an image of a cash register*