# STAAR Grade 6 Math Answer Key

| Item Position | Item Type | TEKS Alignment | Maximum Number of Points | Correct Answers(s) | Reporting Category | Readiness or Supporting |
|---|---|---|---|---|---|---|
| 1 | Multiple Choice | 6.4.14.E | 1 | C | 4 | Supporting |
| 2 | Multiple Choice | 6.3.4.H | 1 | A | 3 | Readiness |
| 3 | Multiple Choice | 6.1.4.G | 1 | B | 1 | Readiness |
| 4 | Multiple Choice | 6.2.3.E | 1 | C | 2 | Readiness |
| 5 | Inline Choice | 6.4.12.D | 2 | soccer, 25%<br><br>See Appendix 1.1 | 4 | Readiness |
| 6 | Multiple Choice | 6.2.6.C | 1 | C | 2 | Readiness |
| 7 | Multiple Choice | 6.4.13.A | 1 | B | 4 | Readiness |
| 8 | Equation Editor | 6.2.5.B | 1 | 578 and any equivalent values<br><br>See Appendix 1.2 | 2 | Readiness |
| 9 | Multiple Choice | 6.3.8.B | 1 | C | 3 | Supporting |
| 10 | Multiple Select | 6.1.4.F | 2 | A, E<br><br>See Appendix 1.3 | 1 | Supporting |
| 11 | Multiple Choice | 6.2.3.D | 1 | C | 2 | Readiness |
| 12 | Multiple Choice | 6.1.7.B | 1 | B | 1 | Supporting |
| 13 | Multiple Choice | 6.2.4.B | 1 | D | 2 | Readiness |
| 14 | Graphing | 6.3.11.A | 1 | Plotted a point at (-0.5, -1) | 3 | Readiness |

| | | | | See Appendix 1.4 | | |
|---|---|---|---|---|---|---|
| 15 | Multiple Choice | 6.2.6.B | 1 | B | 2 | Supporting |
| 16 | Multiple Choice | 6.1.7.A | 1 | D | 1 | Readiness |
| 17 | Multiple Choice | 6.2.10.A | 1 | B | 2 | Readiness |
| 18 | Drag and Drop | 6.1.2.D | 1 | Belton, Bonham, Arlington, Athens, Cedar Creek<br><br>See Appendix 1.5 | 1 | Readiness |
| 19 | Multiple Choice | 6.2.3.C | 1 | C | 2 | Supporting |
| 20 | Multiple Choice | 6.4.14.B | 1 | A | 4 | Supporting |
| 21 | Match Table Grid | 6.2.3.B | 2 | Less Than 25, Greater Than 25, Greater Than 25, Less Than 25<br><br>See Appendix 1.6 | 2 | Supporting |
| 22 | Multiple Choice | 6.3.11.A | 1 | B | 3 | Readiness |
| 23 | Multiple Choice | 6.2.10.B | 1 | A | 2 | Supporting |
| 24 | Multiple Choice | 6.3.8.A | 1 | B | 3 | Supporting |
| 25 | Hotspot | 6.3.8.D | 2 | Both triangles (top left and bottom center) and the 5.1-inch by 2-inch rectangle (middle left)<br><br>See Appendix 1.7 | 3 | Readiness |

| 26 | Multiple Choice | 6.2.3.D | 1 | D | 2 | Readiness |
|---|---|---|---|---|---|---|
| 27 | Graphing | 6.4.12.A | 2 | 151-200: 4 bowlers, 201-250: 5 bowlers, 251-300: 3 bowlers<br><br>See Appendix 1.8 | 4 | Supporting |
| 28 | Multiple Choice | 6.2.3.E | 1 | A | 2 | Readiness |
| 29 | Drag and Drop | 6.1.2.B | 2 | 5, 25, 25, 5<br><br>See Appendix 1.9 | 1 | Supporting |
| 30 | Multiple Choice | 6.2.5.B | 1 | A | 2 | Readiness |
| 31 | Multiple Choice | 6.1.7.D | 1 | D | 1 | Readiness |
| 32 | Drag and Drop | 6.2.4.B | 2 | 36, 72<br><br>See Appendix 1.10 | 2 | Readiness |
| 33 | Multiple Choice | 6.1.4.G | 1 | D | 1 | Readiness |
| 34 | Multiple Choice | 6.4.12.C | 1 | A | 4 | Readiness |
| 35 | Multiple Choice | 6.2.10.A | 1 | C | 2 | Readiness |
| 36 | Multiple Choice | 6.4.13.A | 1 | A | 4 | Readiness |

# STAAR Grade 6 Math

## Appendix

## 1.1

A summer camp offered campers a choice of sports to play in the afternoon. The campers' choices are shown in the table.

**Sports Choices**

| Sport | Number of Campers |
|---|---|
| Basketball | 10 |
| Soccer | 15 |
| Tennis | 5 |
| Volleyball | 10 |

Use the data in the table to complete the statements.

Choose the correct answer from each drop-down menu to complete the sentences.

The sport or pair of sports that represents the mode of the data is [ soccer ⇕ ].

The percentage of campers who chose basketball was [ 25% ⇕ ].

# 1.2

Out of 850 people in an art museum, 32% had an annual pass. How many of the people did **NOT** have an annual pass?

Enter your answer in the box.

578

| ← | → | ↰ | ↱ | ⌫ |

| 1 | 2 | 3 |
|---|---|---|
| 4 | 5 | 6 |
| 7 | 8 | 9 |
|   | 0 |   |
| . | - | |

# 1.3

Two points are plotted on the number line shown.
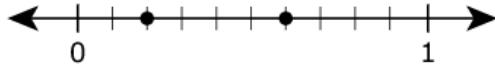


Which values are represented by the points on the number line?

Select **TWO** correct answers.

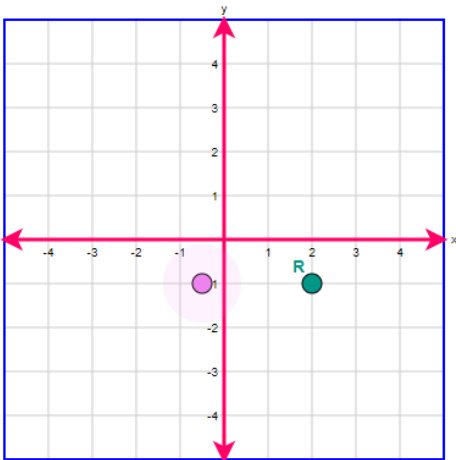- ☑ $\frac{3}{5}$

- ☐ 0.3

- ☐ $\frac{2}{5}$

- ☐ 70%

- ☑ 0.2

# 1.4

The graph shows point $R$. What is the location of a point in Quadrant III at a horizontal distance of $2\frac{1}{2}$ units from point $R$?

Plot the point on the coordinate plane.

# 1.5

The table shows the amounts the water levels increased in feet for five Texas lakes during one week.

**Texas Lakes**

| Name of Lake | Increase in Water Level (feet) |
|---|---|
| Arlington | 2.2 |
| Athens | $1\frac{1}{4}$ |
| Belton | 5.2 |
| Bonham | $2\frac{1}{2}$ |
| Cedar Creek | $\frac{3}{4}$ |

Order the names of the lakes by water level increase from greatest to least.

Move the correct answer to each box.

| Arlington | Athens | Belton | Bonham | Cedar Creek |
|---|---|---|---|---|

Greatest                                         Least

| Belton | Bonham | Arlington | Athens | Cedar Creek |
|---|---|---|---|---|

# 1.6

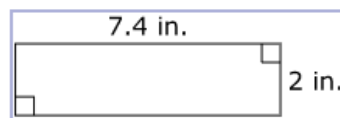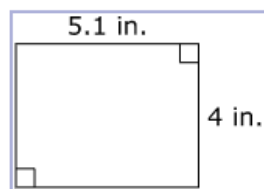Determine whether the value of each expression is greater than 25 or less than 25.

Select the correct answer in each row.

| | Greater Than 25 | Less Than 25 |
|---|:---:|:---:|
| $25 \cdot \frac{12}{13}$ | ☐ | ☑ |
| $25 \cdot \frac{15}{7}$ | ☑ | ☐ |
| $25 \cdot \frac{98}{25}$ | ☑ | ☐ |
| $25 \cdot \frac{100}{181}$ | ☐ | ☑ |

## 1.7

The diagram shows the dimensions of five shapes in inches. Which shapes have equal areas?

Select **THREE** correct answers.
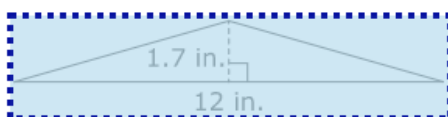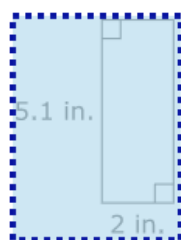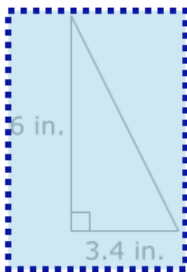
# 1.8

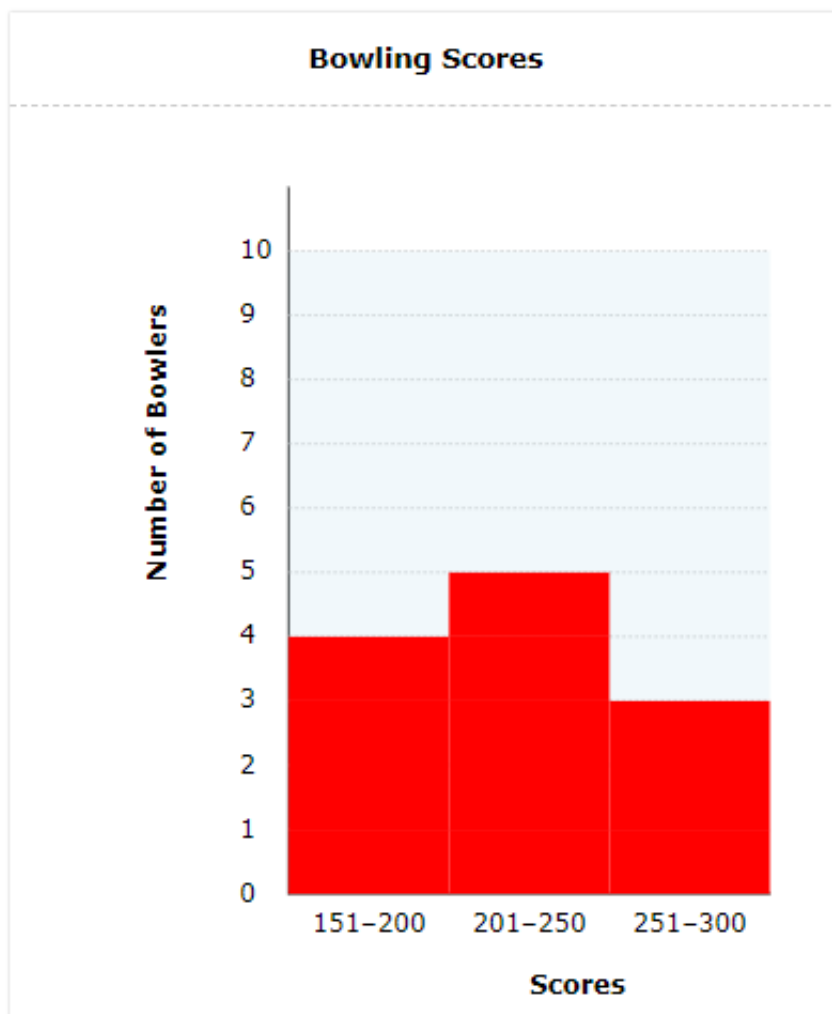Twelve friends went bowling. Their scores are listed in the table.

**Bowling Scores**

| 202 | 196 | 280 | 176 |
|-----|-----|-----|-----|
| 255 | 190 | 200 | 300 |
| 207 | 230 | 240 | 247 |

Complete the histogram to represent the bowling scores.

Select the correct height for each bar in the graph.



**Bowling Scores**

Number of Bowlers

151–200    201–250    251–300

**Scores**

**1.9**

What is the value of each number?

Move the correct answer to each box. Each answer may be used more than once.

5   −5   −25   25

|5| =   5

| − 25| =   25

|25| =   25

| − 5| =   5

**1.10**

At a store, the ratio of the number of limes sold to the number of lemons sold is 2:3.

Complete the table to show the relationship between the number of limes sold and the number of lemons sold.

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

16   36   45   72   87   162

**Sales at the Store**

| Number of Limes Sold | Number of Lemons Sold |
| --- | --- |
| 24 | 36 |
| 42 | 63 |
| 72 | 108 |