#### **GRADE 7**

## **Multiple-Choice Answer Key**



## **Multiple-Choice Answer Key**



# **Constructed-Response Scoring Rubrics**



Session 3

4				
4	The stud	The student earns 4 points.		
3	The stud	The student earns 3 points.		
2	The stud	The student earns 2 points.		
1	The stud standard	The student earns 1 point OR demonstrates minimal understanding of the standard being measured.		
0	The stud measure	ent's response d, or blank.	is incorrect, ir	relevant to the skill or standard being
Sample Answer:				
Part A.				
	<b>Triangle Mea</b>	asures		
Measures	Not a Triangle	Unique Triangle	More Than One Triangle	
11 in., 11 in., 60°		Х		
25°, 50°, 25°	X			
5 ft, 6 ft, 10 ft		Х		
			X	
68°, 109°, 3°				1
68°, 109°, 3° 13 cm, 7 cm, 6 cm	Х			

11 inches, 11 inches, 180° (or greater) OR

11 inches,  $120^{\circ}$  (or greater),  $60^{\circ}$ 

#### 61. **Points Assigned:**

Part A. 2 points

2 points for correctly categorizing all 5 sets of measures (not including the given set) **OR** 

1 point for correctly categorizing 3 or 4 sets of measures (not including the given set)

Part B. 1 point

1 point for giving a complete and accurate explanation of why the measures produce a unique triangle

Part C. 1 point

1 point for changing only one of the measures to one (either length or angle measure) that would not allow for a triangle to be created

Scoring Dubric	
	The student earns 5 points
	The student earns 3 or 4 points.
<u> </u>	The student earns 2 points.
<u> </u>	The student earns 1 point OP demonstrates minimal understanding of th
1	standard being measured
	The student's regrange is incorrect irrelevant to the skill or standard bei
0	measured or block
<u>C</u> 1 4	measured, or blank.
Sample Answer:	
Part A. 80	
Part C. 20%. First, 1 ki so there are also 24 six	how there are 80 seventh graders and 30% of them are in the band. 30% of 80 is of graders. Since there are 120 sixth graders total, I know that $\frac{24}{120} = \frac{1}{5} = 20\%$ c
the sixth graders are in	1 the band.
Points Assigned:	
Part A. 1 point	
1 point for correctly de	etermining the number of seventh graders
Part B. 2 points 1 point for <b>each</b> of the	2 complete and accurate descriptions of how to determine the number of sixth
graders	
graders Part C. 2 points	
graders Part C. 2 points 1 point for correctly de	etermining the percentage of sixth graders in the band
graders Part C. 2 points 1 point for correctly de AND	etermining the percentage of sixth graders in the band

**Note:** Scorers should follow along with the student's work throughout. If the student makes an error in a previous part and subsequent answers are correct based on the earlier error, the student should not be penalized again.

Answer Key	/ - Weekly	y Math	Review -	- Q2:8
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Monday	Tuesday	Wednesday	Thursday
Write an inequality that represents the graph below: $\frac{x \ge -6}{2}$	Graph the inequality on a number line: -2 > m	Write an inequality that represents the graph below: $\frac{x < 1}{2}$	Solve and graph the inequality on a number line:
<mark>←+ ⊕ : : : : : : : : : : : : : : : : : : </mark>	<del>42 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</del>	<del>≪ ++ + + 00  2</del> ++ +  ~7~6~5~4~3~2~101254567	$-2.25w \ge 13.5$
Johnny must learn more than 10 new plays before the big game. He has already learned 4. Write an inequality that represents how many more plays he needs to learn to reach his goal? x > 6	Which is NOT a solution of the inequality $5-2x \ge -3$ ? A) 0 B) 2 C) 4 D) 5	Write an inequality that represents ten less than four times a number is more than 1000. $\frac{4x - 10 > 1000}{4x - 10}$	A business has a goal of selling 500 bags of chips. With 3 days left they have 322 to go. At least how many do they need to average per day to meet their goal? x > 107
At a pie eating contest, Jonny ate 8 pies in 5 minutes. How much time did he spend on each pie? <u>37.5 seconds</u>	Janet completed this entire column of math homework in 10 minutes. How many seconds per question did Janet spend? 1.25 minute or 1 minute and 15 seconds	Steve increases his math average by 9 points over a period of 15 weeks. How many points per week did he average? 0.6 points	Burger King offers a deal of 10 chicken nuggets for \$1.49. How much is this per nugget? 15 cents per nugget
Which pair of ratios does not	Divide:	Tim walked 16 laps in 40	len has read $\frac{4}{-}$ of a book
form a true proportion? A) 6:16 and 21:56 B) 2 to10 and 15 to 75 $\frac{9}{11} = \frac{27}{15}$ D) y = 5x	<u>-56.72</u> -8 7.09	minutes while Jim walked 30 laps in an hour and 15 minutes. Who is the faster walker? <mark>Neither, same speed</mark>	The next day she read $\frac{2}{3}$ of what she had left. What fraction of the book is left to read?
Bill is a car salesman. He earns \$200 for every car he sells plus a 3% commission. If Bill sells 3 cars in one week for a total of \$32,343, what are his total earnings for the week? \$1570.29	In one year Angelica's height went from 60 inches to 63 inches. What was the percent of increase in Angelica's height? 5%	Emily estimated that there were 315 students at a soccer game. The actual number of students at the game was 350. What was the percent error of her estimate? 10%	Danna purchased a TV for \$200. Eight months later, the same TV was selling for \$160. What was the percent of decrease in the price? 20%
What is the slope between the points (4,–2) and (–1,0) $-\frac{2}{5}$	What is the slope indicated in the table below?X36912Y7142128 $\frac{7}{3}$ 333	What is the slope below? $-\frac{5}{4}$	Find the missing value so that the two points have a slope of $-\frac{11}{7}$ . (2,6) and (x, -5) x = 9
The scale of a map is $1\frac{1}{4}$ inches = 100 miles. On the map, two rivers are $4\frac{1}{8}$ inches apart. What is the distance between the two rivers? 330 miles	A rectangle has an area of 20 square feet. A similar rectangle has an area of 180 square feet. What is ratio of the areas of these similar rectangles? 1:9	Two fields at a state park are 1,000 meters from each other. On a map, the two fields are 8 centimeters apart. What scale is the map using? 1:125	Eric made a drawing of his rectangular bedroom with the scale 1 inch = 3 feet. The drawing was 5 inches long by 4 inches wide. What was the actual area of Eric's room? 180 ft <sup>2</sup>
The dimensions of a rectangular porch are 16 feet long by 12 feet wide. Use the scale of 1 inch = 4 feet and a ruler to make a scale drawing of the porch. <u>3in X 4in rectangle</u>	Same dimensions to the left, make the same drawing except use a scale of 1 cm = 2 feet 8cm X 6cm rectangle	The shapes below are similar. What does x have to be? $\int_{\frac{1}{3}} \int_{\frac{1}{3}} \int_{\frac{1}{3}$	Same question as above, except that the scale is 3 inches = 4.5 feet. <mark>45 feet</mark>

Answer Key	/ - Weekly	/ Math	Review	- Q3:1
	,			

Monday	Tuesday	Wednesday	Thursday
The table shows a bank account balance for 2-days. Balance -\$51 -\$75 \$ -24 How much did the bank account	Solve: $\frac{k}{3} + 4 - 2k = -9k$ $\frac{k}{k} = -\frac{6}{11}$	How many $\frac{5}{8}$ -foot pieces of wood can you cut from a board that is $4\frac{5}{8}$ feet long? 7	Find the difference between $(x + 7) \& (3x + 4)$ -2x + 3
Change over the two days? Sketch a graph that represents a proportional relationship.	Write an inequality for x that would give this rectangle an area of at least 246 ft <sup>2</sup> . (2x+4)m 8(2x + 4) $\ge$ 246	Sketch a graph that does NOT represent a proportional relationship.	Which is NOT a solution of the inequality $9-3x \ge -36$ ? A) 0 B) -22 C)50 D)11
Carlos bought an item online for \$160 and he was charged an \$8 fee for shipping. What percent of the sale price was the shipping fee? 5%	A store is having a sale in which all items are reduced by 20%. Including tax, Jennifer paid \$21 for a pair of shorts. If the sales tax is 5%, what was the original price of the shorts? \$25	John bought a cell phone for \$99 and the 7% sales tax was added at the register. John gave the cashier six \$20 bills, how much change should he receive? <mark>\$14.07</mark>	A carpet layer can put down 400 square feet of carpeting in 2.5 hours. How many hours will it take him to lay 600 square feet of carpet? <u>3 hours and 45 minutes</u>
What is the slope between the points (0,-3) and (-6,7)? $-\frac{5}{3}$	What is the slope indicated in the table below? X 4 8 12 16 Y 5 10 15 20 5 4	What is the slope below?	Find the missing value so that the two points have a slope of $-\frac{13}{2}$ . (-2,y) and (0, -4) y = 9
A diagram of a swimming pool is below. The width of the pool is 25 m, find the length of the actual pool?	A rectangle has an area of 25 square feet. A similar rectangle has an area of 240 square feet. What is the ratio of the areas of these similar rectangles? $\frac{5}{48}$	What is the ratio from the big to the small rectangle?	A circle has a radius of 5 feet. What is the circumference of a bigger circle if the scale factor of the smaller to bigger is 2:5? $25\pi$ or 78.5
Solve the proportional equation below: $\frac{3}{8} = \frac{2}{v}$	Solve the proportional equation below: $\frac{9}{10} = \frac{8}{a+6}$ $\frac{26}{a+6}$	Solve the proportional equation below: $\frac{p}{2} = \frac{p-2}{8}$	Solve the proportional equation below: $\frac{10}{4} = \frac{x+8}{x-1}$ $x = 7$
Find the missing angle: $20^{\circ}$ $30^{\circ}$	$a = \frac{6}{9}$ Which set of numbers <u>cannot</u> represent the lengths of the sides of a triangle? A) 6, 8, 11 B) 7, 5, 6 C) 7, 18, 11 D) 9, 12, 19	$p = -\frac{1}{3}$ In right triangle $\triangle ABC$ , $m \angle A = 37^{\circ}$ . Find $m \angle B$ .	If the base angle of an isosceles triangle measures 15°, what is the measure of the other angles? 15°, 150°
Classify the triangle in the above problem: Right, <mark>Scalene,</mark> Isosceles, Equilateral	Draw a right triangle that is also isosceles.	If two angles of a triangle have measures of 42° and 20°, what is the measure of the third? 118°	<ul> <li>Which set of measurements represents the lengths of an isosceles triangle?</li> <li>A) 3cm, 4cm, 5cm</li> <li>B) 13in, 13in, 26in</li> <li>C) 27in, 27in, 44in</li> <li>D) 18cm, 18cm, 38cm</li> </ul>