## Texas Through-year Assessment Pilot (TTAP) Item Samplers – Grade 6 Math

Provided are three sets of examples that demonstrate the difference between the difficulty level classifications within the same standard. The items are categorized as Did Not Meet, Approaches, Meets, or Masters. More information about item difficulty can be found on TTAP Individual Student Reports (ISRs).

## **Item Sampler Set 1**

6.4(B): apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates

Did Not Meet 6.2.4.B	Approaches 6.2.4.B	Meets 6.2.4.B	Masters 6.2.4.B
A lawn care service mowed 6 lawns in 4 hours. At this rate, how many lawns can the lawn care service mow in 8 hours?  A. 10 B. 16 C. 12 D. 18	Sam drives his car for work. The table shows the number of miles that Sam drives based on the number of gallons of gas used.  Sam's Car  Gas Used (gallons) Distance (miles)  2 46 4 92 5 115 7 161  A. Sam drives 23 miles per gallon of gas. B. Sam drives 20 miles per gallon of gas. C. Sam needs 5 gallons of gas to drive 230 miles. D. Sam needs 6 gallons of gas to drive 160 miles. E. Sam needs 9 gallons of gas to drive 207 miles.  Based on the data in the table, which statements are true? Select TWO correct answers.	Jarrett earns \$455 for 35 hours of work.  At this rate, how much money in dollars would Jarrett earn for 40 hours of work?  Enter your answer in the space provided.	At a store, the ratio of the number of limes sold to the number of lemons sold is 2:3.  Complete the table the show the relationship between the numbers 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 63  108
Answer: C	Answer: A, E	Answer: 520	Answer: 36, 72

## **Item Sampler Set 2**

6.12(D): summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution

Did Not Meet 6.4.12.D	Approaches 6.4.12.D	Meets 6.4.12.D	Masters 6.4.12.D
Students at a middle school each enrolled in one elective class. The table shows the number of students who chose each elective class.  Elective Class Enrollment  Class Number of Students  Band 102  Robotics 176	A teacher surveys students on their favorite types of movies. The percent bar graph shows the teacher's data.  What is the mode of the data?  Select the section of the percent bar graph the represents the mode of the data.  Favorite Movies    KEY	In a neighborhood, the roof on each house is one of five colors. The table shows the number of roofs of each color in the neighborhood.  Roof Colors  Color Number of Roofs Black 5 Blue 8 Gray 20 Green 7 Tan 10  Which statement is best supported by the data in the table?  A. More than 50% of the houses have a gray roof.  B. Exactly 25% of the house have a tan roof.  C. Exactly 7% of the houses have a green roof.  D. More than 15% of the houses have a blue roof.	A summer camp offered campers a choice of sports to play in the afternoon. The campers' choices are shown in the table.  Sport 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  basketball and volleyball soccer tennis  The percentage of campers who chose basketball was  10% 25% 37.5%
Answer: B	Answer: 10-50	Answer: D	Answer: basketball and volleyball, 25%

## **Item Sampler Set 3**

6.4(G): generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money

Did Not Meet 6.1.4.G	Approaches 6.1.4.G	Meets 6.1.4.G	Masters 6.1.4.G
Wesley mowed 45% of his lawn.  Which decimal is equivalent to the percentage of his lawn that Wesley has mowed?  Nasir published values a portion of that Nasir published that Na	Nasir purchased a box of 8 granola bars and ate 6 of them. Which values are equivalent to the portion of the box of granola bars that Nasir ate?  Select <b>THREE</b> answers.  A. 8/6 B. 3/4 C. 68% D. 75% E. 0.68	The manager of a store discounted some items:  • Coats were 1/4 off the regular price. • Sweaters were 20% off the regular price.  Complete the table to show the equivalent fraction, decimal, and percentage in each row.  Move the correct answer to each box in the table. Not all answers will be used  • Equivalent Values	A student correctly answers 22 out of 25 questions. What decimal is equivalent to the fraction of questions the student answered correctly.  Enter your answer in the space provided.  1 2 3 4 5 6 7 8 9 9
		Fraction Decimal Percentage  1/4 20%	
Answer: C	Answer: B, D, F	Answer: .25, 25%, 1/5, .2	Answer: 0.88