Step Up to the TEKS by GF Educators, Inc.

Sixth Grade Mathematics

2018 Released Items Analysis

Teacher:____

Copyright © 2018

Edition I





6th Grade Mathematics

Released Items

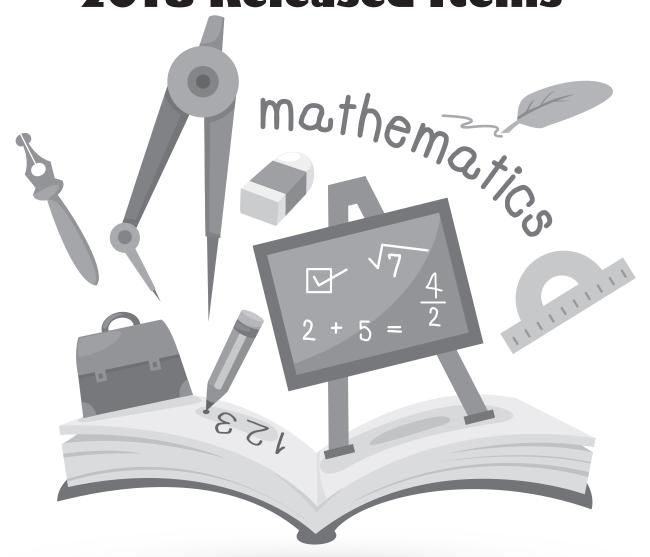
Name:			

Teacher: _____

Date: _____

Step Up to the TEKS by GF Educators, Inc.

Instructional Analysis
2018 Released Items





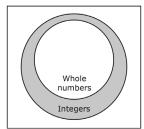
6th Grade Math

EKS 6.2A Supporting Standard

classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers

ITEM

36 The Venn diagram shows the relationships among different sets of numbers.



Which number would be located in the shaded part of the diagram?

-1.7

-8

Н

10

Item Analysis		
Verb	Classify	
Using or Including	Venn diagram	
Concept	Rational Numbers	
Process TEKS	6.1B, 6.1E, 6.1F	

Provided by:



www.StepUpTEKS.com

TEKS 6.2B Supporting Standard identify a number, its opposite, and its absolute value

ITEM

3 George wrote an integer. The opposite of George's integer

Which of these statements about George's integer must be true?

- I. The integer is 53.
- II. The integer has an absolute value of -53.
- III. The integer is -53.
- IV. The integer has an absolute value of 53.
- A I and II
- B II and IV
- II and III
- **D** I and IV

Item Analysis		
Verb	Identify	
Using or Including	NA	
Concept	Number, Opposite, Absolute Value	
Process TEKS	6.1A, 6.1B, 6.1F	

Provided by:





6th Grade Math

EKS 6.2D Readiness Standard

order a set of rational numbers arising from mathematical and real-world contexts

ITEM

14 The table shows the portion of a day four students used to build a website. Time Used

Student	Portion of Day
Jamail	29.4%
Andrew	37.6%
Ernesto	<u>7</u> 25
Blake	3 10

Which list shows the students in order from the greatest amount of time used to the least amount of time used?

- **F** Andrew, Blake, Jamail, Ernesto
- **G** Blake, Andrew, Jamail, Ernesto
- H Ernesto, Blake, Andrew, Jamail
- Andrew, Jamail, Ernesto, Blake

Item Analysis		
Verb	Order	
Using or Including	Real-World	
Concept	Rational Numbers	
Process TEKS	6.1A, 6.1B, 6.1F	

Provided by:



www.StepUpTEKS.com

TEKS 6.2D Readiness Standard order a set of rational numbers arising from mathematical and real-world contexts

ITEM

30 Which list shows the numbers in order from least value to greatest value?

Item Analysis		
Verb	Order	
Using or Including	Mathematical	
Concept	Rational Numbers	
Process TEKS	6.1B, 6.1F	

Provided by:



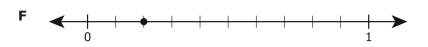


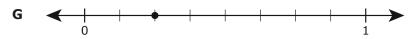
6th Grade Math

TEKS 6.4F Supporting Standard represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers

ITEM

6 An engine is operating at 25% of its full power. Which number line shows a point that represents 25%?









Item Analysis		
Verb	Represent	
Using or Including	Number Lines	
Concept	Benchmark Fractions	
Process TEKS	16 1A 6 1B 6 1F 6 1F	
Provided by:		



www.StepUpTEKS.com

TEKS 6.4G Readiness Standard generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money

ITEM

10 A waiter earned a 17% tip. What decimal is equivalent to 17%?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

Item Analysis	
Verb	Generate
Using or Including	Money
Concept	Equivalent Forms Percents and Decimals
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:





6th Grade Math

generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money

ITEM

- 23 Dolores spent \$13.00 of the \$20.00 in her wallet. Which decimal represents the fraction of the \$20.00 Dolores spent?
 - 0.35 Α
 - В 0.13
 - C 0.07
 - D 0.65

Item Analysis		
Verb	Generate	
Using or Including	Money	
Concept	Equivalent Forms Percents and Decimals	
Process TEKS	6.1A, 6.1B, 6.1F	

Provided by:



www.StepUpTEKS.com

TEKS 6.7A Readiness Standard
generate equivalent numerical expressions using order of operations, including whole number exponents, and prime factorization

ITEM

- **12** Which expression is equivalent to 16 + 2 36?
 - **F** $2^4 + 2^3 \cdot 3^2$
 - **G** $2^3 + 2^3 \cdot 3^2$
 - **H** $2^4 + 2^2 \cdot 3^2$
 - $2^3 + 2^2 \cdot 3^3$

Item Analysis		
Verb	Generate	
Using or Including	Prime Factorization	
Concept	Equivalent Numerical Expressions	
Process TEKS	6.1B, 6.1F	

Provided by:



6th Grade Math

EKS 6.7A Readiness Standard

generate equivalent numerical expressions using order of operations, including whole number exponents, and prime factorization

ITEM

32 Keith wrote the expression shown to determine the cost in dollars for an upcoming trip.

$$(127.50 - 23.50) + 3(86.50 + 4)$$

Which expression is equivalent to the one Keith wrote?

- 107(90.50)
- 101(90.50) G
- 104 + 3(90.50)
- 104 + 263.50

Item Analysis		
Verb	Generate	
Using or Including	Properties	
Concept	Equivalent Expressions	
Process TEKS	6.1A, 6.1B, 6.1F	

Provided by:



www.StepUpTEKS.com

TEKS 6.7D Readiness Standard

generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties

ITEM

8 Shea wrote the expression 5(y + 2) + 4 to show the amount of money five friends paid for snacks at a baseball game. Which expression is equivalent to the one Shea wrote?

F
$$5+y+5+2+4$$

G
$$5 \cdot y \cdot 5 \cdot 2 + 4$$

H
$$5 \cdot y \cdot 4 + 5 \cdot 2 \cdot 4$$

J
$$5 \cdot y + 5 \cdot 2 + 4$$

Item Analysis	
Verb	Generate
Using or Including	Properties
Concept	Equivalent Expressions
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:



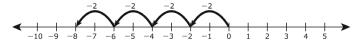
6th Grade Math

EKS 6.3C Supporting Standard

represent integer operations with concrete models and connect the actions with the models to standardized algorithms

ITEM

24 Which expression is represented on the number line?



- $\mathbf{F} = 0 (-8)$
- **G** -2 4
- \mathbf{H} -2 + (-8)
- -2 ÷ 4

Item Analysis	
Verb	Represent
Using or Including	Concrete Models
Concept	Integer Operations
Process TEKS	6.1B, 6.1E, 6.1F

Provided by:



www.StepUpTEKS.com

TEKS 6.3D Readiness Standard add, subtract, multiply, and divide integers fluently

ITEM

Serena bought 5 shirts for \$6 each and spent \$7 on lunch. She 1 paid for the shirts and lunch using her debit card. The change in the balance of Serena's checking account can be represented by the expression shown.

$$5(-6) + (-7)$$

Which integer represents the change in the balance of Serena's checking account from these purchases?

- 37
- 23
- C - 18
- 4

Item Analysis	
Verb	Add, Multiply
Using or Including	Fluently
Concept	Integers
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:





6th Grade Math Category 2

TEKS 6.3D Readiness Standard add, subtract, multiply, and divide integers fluently

ITEM

33 LuAnn is playing a math game. She chooses three cards. The value of each of her cards is shown.

First card: -12 Second card: 3 Third card: -5

What is the sum of the values of LuAnn's three cards?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

Item Analysis	
Verb	Add
Using or Including	Fluently
Concept	Integers
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:



www.StepUpTEKS.com

TEKS 6.3E Readiness Standard multiply and divide positive rational numbers fluently

ITEM

18 A pharmacist put 4.536 ounces of vitamin pills into bottles. She put 0.042 ounce of vitamin pills into each bottle.

How many bottles did the pharmacist use of these vitamin pills?

11

G 5

н 18

J 108

Item Analysis	
Verb	Divide
Using or Including	Fluently
Concept	Positive Rational Numbers
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:





6th Grade Math

TEKS 6.4B Readiness Standard apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates

ITEM

20 The table shows the time Monique worked and the amount of money she earned during four different weeks.

Monique's Earnings

Time Worked (hours)	Amount Earned (dollars)
15	123.75
20	165
24	198
30	247.50

Based on the information in the table, how much will Monique earn if she works 40 hours in a week?

\$330

\$255.75

н \$297

\$82.50

Item Analysis	
Verb	Apply
Using or Including	Rates
Concept	Solve Real-World Problems
Process TEKS	6.1A, 6.1B, 6.1E, 6.1F

Provided by:



www.StepUpTEKS.com

TEKS 6.5B Readiness Standard solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models

ITEM

- 11 Yesterday 170 guests at a hotel called for room service, and 255 guests did not call for room service. What percentage of the guests at this hotel called for room service yesterday?
 - Α 60%
 - 15%
 - C 40%
 - 85%

Item Analysis	
Verb	Solve
Using or Including	NA
Concept	Percent
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:





6th Grade Math

EKS 6.5B Readiness Standard

solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models

ITEM

31 A shop owner offered a 20% discount off the regular price of a mirror. The amount of the discount is \$3.

What is the regular price of the mirror?

- \$15
- В \$6
- \$9 C
- \$18

Item Analysis	
Verb	Solve
Using or Including	NA
Concept	Find the Whole
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:

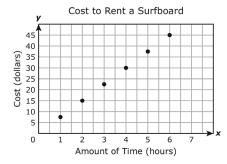


www.StepUpTEKS.com

TEKS 6.6A Supporting Standard identify independent and dependent quantities from tables and graphs

ITEM

28 The graph shows the cost to rent a surfboard for different amounts of time.



Which list best represents the independent values of the graphed points?

- 1, 7.50, 2, 15, 3, 22.50, 4, 30, 5, 37.20, 6, 45
- **G** 5, 10, 15, 20, 25, 30, 35, 40, 45
- **H** 7.50, 15, 22.50, 30, 37.50, 45
- 1, 2, 3, 4, 5, 6

Item Analysis	
Verb	Identify
Using or Including	Graph
Concept	Independent Quantity
Process TEKS	6.1A, 6.1B, 6.1E, 6.1F

Provided by:



6th Grade Math

TEKS 6.6C Readiness Standard

represent a given situation using verbal descriptions, tables, graphs, and equations in the form y = kx or y = x + b

ITEM

5 A carpenter charges \$720 for 18 hours of work. She charges the same amount of money for each hour of work.

Which table shows the relationship between the amount of time the carpenter works and the amount of money she charges?

	Amount of Time Worked (hours)	Amount Charged (dollars)
Α	2	80
	4	160
	6	240
	8	320

Carpenter's Charges

 Carpenter's Charges

 Amount of Time Worked (hours)
 Amount of Charged (dollars)

 19
 720

 20
 738

 21
 756

 22
 774

Carpenter's Charges

Amount of Time Worked (hours) (dollars)

5 125
7 175
9 225

Item Analysis	
Verb	Represent
Using or Including	Table y = ax
Concept	Given Situation
Process TEKS	6.1A, 6.1B, 6.1D, 6.1F
Provided by:	

GF Educators
STEP UP TO THE TEKS

www.StepUpTEKS.com

TEKS 6.6C Readiness Standard

represent a given situation using verbal descriptions, tables, graphs, and equations in the form y = kx or y = x + b

ITEM

В

35 Which situation can be represented by the equation y = 74x?

- A company uses a total of y gallons of water at a rate of 74 gallons per hour for x hours.
- **B** A restaurant serves a total of *y* meals in one day, in which 74 meals are served during the first hour and *x* meals are served during the remaining hours.
- **C** A company manufactures a total of 74 drinking glasses every hours, with *x* of the glasses made of clear glass and *y* of them made of blue glass.
- **D** A restaurant prepares a total of *y* batches of pizza sauce from 74 pounds of tomatoes, with each batch weighing *x* pounds.

Item Analysis	
Verb	Represent
Using or Including	Verbal Description
Concept	y = kx
Process TEKS	6.1A, 6.1B, 6.1D, 6.1G
Provided by:	

Provided by:



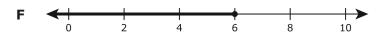
6th Grade Math Category 2

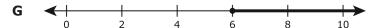
EKS 6.9B Supporting Standard

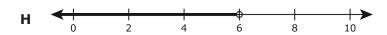
epresent solutions for one-variable, one-step equations and inequalities on number lines

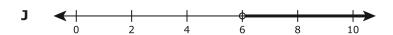
ITEM

16 Which number line represents the solution to 5x < 30?









Item Analysis	
Verb	Represent
Using or Including	Number Line
Concept	One-Variable, One-Step Inequality
Process TEKS	6.1B, 6.1E, 6.1F

Provided by:



www.StepUpTEKS.com

TEKS 6.9C Supporting Standard write corresponding real-world problems given one-variable, one-step equations or inequalities

ITEM

26 Which situation can be represented by 17.35x > 624.50?

- **F** A waitress had received a \$17.35 tip. This brought her total in tips to more than \$624.60.
- Brianda made a deposit of \$17.35 into a savings account. This brought the total of her savings account to \$624.60. How much money did she have in this savings account before she made the deposit?
- **H** A dozen tamales cost \$17.35 including tax. How many dozen tamales can a customer buy with \$624.60?
- Darren earns \$17.35 per hour at his job. How many hours does he need to work in order to earn more than \$624.60?

Item Analysis	
Verb	Write
Using or Including	NA
Concept	One-Variable, One-Step Inequality
Process TEKS	6.1A, 6.1B, 6.1G

Provided by:





6th Grade Math

TEKS 6.10A Readiness Standard model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts

ITEM

13 Alejandra has \$600 in her checking account. She wants to spend part of this money on a computer. She wants to have at least \$250 left in her checking account after buying the computer. The inequality shown can be used to find t, the amount of money in dollars that Alejandra can spend on the computer.

$$t + 250 \le 600$$

Which inequality represents all possible values of *t*?

A $t \ge 350$

t ≤ 850

t ≤ 350

D $t \ge 850$

Item Analysis	
Verb	Solve
Using or Including	NA
Concept	One-Variable, One-Step Inequality
Process TEKS	6.1A, 6.1B, 6.1F

Provided by:



www.StepUpTEKS.com

TEKS 6.10A Readiness Standard model and solve one-variable, one-step equations and inequalities that represent problems, including geometric

ITEM

38 The area of the rectangle shown is 375 square centimeters.



What is *h*, the height of the rectangle in centimeters?

350 cm

7.5 cm

15 cm

162.5 cm

Item Analysis	
Verb	Solve
Using or Including	Geometric Concepts
Concept	One-Variable, One-Step Equation
Process TEKS	6.1B, 6.1C, 6.1E, 6.1F

Provided by:



6th Grade Math

TEKS 6.10B Supporting Standard determine if the given value(s) make(s) one-variable, one-step equations or inequalities true

ITEM

Item Analysis

22 Which equation has a solution of k = 6.5?

F -3k = 19.5

G -1 + k = 7.5

H -7k = -45.5

J -2 + k = -8.5

Item Analysis	
Verb	Determine
Using or Including	NA
Concept	Value True
Process TEKS	6.1B, 6.1F

Provided by:



www.StepUpTEKS.com

ITEM	Item Analysis
	Verb
	Using or Including
	Concept
	Process TEKS



Provided by:



6th Grade Math

TEKS 6.4H Readiness Standard

convert units within a measurement system, including the use of proportions and unit rates

ITEM

- 7 A can contains 24 fluid ounces of fruit juice. How many pints of fruit juice does the can contain?
 - Α 12 pt
 - 3 pt
 - $1\frac{1}{2}$ pt C
 - $\frac{1}{3}$ pt

Item Analysis	
Verb	Convert
Using or Including	Unit Rate
Concept	Measurement Systems
Process TEKS	6.1A, 6.1B, 6.1C, 6.1F

Provided by:



www.StepUpTEKS.com

TEKS 6.8A Supporting Standard extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and determining when three lengths form a triangle

ITEM

- **25** Which set of angle measures CANNOT be the angle measures of a triangle?
 - **A** 60°, 60°, 61°
 - 1°, 1°, 178°
 - 13.9°, 16.1°, 150°
 - 59°, 60°, 61°

Item Analysis	
Verb	Extend
Using or Including	Sum of the Angles of a Triangle
Concept	Properties of Triangles
Process TEKS	6.1B, 6.1C, 6.1F

Provided by:



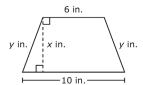
6th Grade Math

EKS 6.8C Supporting Standard

write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers

ITEM

2 The face of a lamp shade is shaped like a trapezoid. The dimensions of the face are shown in the diagram.



Which equation can be used to find A, the area of the face of the lamp shade in square inches?

F A =
$$\frac{1}{2}$$
(6 + 10)*y*

G A =
$$\frac{1}{2}$$
(6 + 10)x

H A =
$$\frac{1}{2}$$
(6) + (10)x

J
$$A = \frac{1}{2}(6) + (10)y$$

Item Analysis	
Verb	Write
Using or Including	Trapezoid
Concept	Area
Process TEKS	6.1A, 6.1B, 6.1C, 6.1E, 6.1F



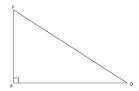


www.StepUpTEKS.com

TEKS 6.8D Readiness Standard determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers

ITEM

17 Triangle PQR is shown. Use the ruler provided to measure the dimensions of the triangle to the nearest $\frac{1}{2}$ inch.



Which measurement is closet to the area of triangle PQR in square inches?

B
$$8\frac{3}{4}$$
 in.²

C
$$6\frac{1}{2}$$
 in.²

Item Analysis	
Verb	Determine
Using or Including	NA
Concept	Area of a Trapezoid
Process TEKS	6.1B, 6.1C, 6.1E, 6.1F

Provided by:

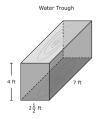


6th Grade Math

TEKS 6.8D Readiness Standard determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers

ITEM

34 The figure represents a water trough in the shape of a rectangular prism. The dimensions of the water trough are given in feet.



What is the volume of water in the trough in cubic feet when the trough is full?

- 70 ft³
- 76 ft³

Item Analysis	
Verb	Determine
Using or Including	NA
Concept	Volume of a Rectangular Prism
Process TEKS	6.1A, 6.1B, 6.1C, 6.1E, 6.1F

Provided by:

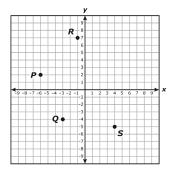


www.StepUpTEKS.com

TEKS 6.11A Readiness Standard graph points in all four quadrants using ordered pairs of rational numbers

ITEM

21 The coordinate grid shows point *P*, *Q*, *R*, and *S*. All coordinates for these points are integers.



What is the value of the *x*-coordinate of point *P*?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

Item Analysis		
Verb	Graph	
Using or Including	Ordered Pairs	
Concept	Four Quadrants	
Process TEKS	6.1B, 6.1E, 6.1F	

Provided by:



6th Grade Math

EKS 6.12A Supporting Standard

Category 4

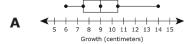
represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots

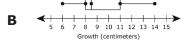
ITEM

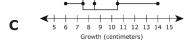
The list shows the growth in centimeters of 12 plants during one week.

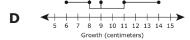
6, 7, 7, 8, 8, 8, 9, 9, 10, 11, 11, 14

Which box plot best displays a summary of these data?









Item Analysis		
Verb	Represent	
Using or Including	Stem-and-Leaf Plots	
Concept	Graphed Data	
Process TEKS	6.1A, 6.1B, 6.1D, 6.1F	

Provided by:



www.StepUpTEKS.com

TEKS 6.12C Readiness Standard summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution

ITEM

4 The dot plot shows the lengths of the 12 trailer sold at a store last month.



Which statement about the data is true?

- F The interquartile range is 7, and the range is 17.
- The interquartile range is 7, and the range is 11. G
- The interquartile range is 2.75, and the range is 17. Н
- The interquartile range is 2.75, and the range is 11.

Verb Summarize Using or Interquartile Range Concept Numerical Data Process TEKS 6.1A, 6.1B, 6.1E, 6.1F	Item Analysis		
Concept Numerical Data Process 6 1A 6 1B 6 1F 6 1F	Verb	Summarize	
Process 6 1A 6 1B 6 1F 6 1F		Interquartile Range	
1 6 1 A 6 1 B 6 1 F 6 1 F	Concept	Numerical Data	
		6.1A, 6.1B, 6.1E, 6.1F	

Provided by:





6th Grade Math

EKS 6.12C Readiness Standard

summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution

ITEM

29 Patricia recorded the prices of watches at a store. The prices are shown in the table.

Watches

Price (dollars) 15 22 16 24 16 20 12 27	· · · · · · · · · · · · · · · · · · ·		
22 16 24 16 20 12			
16 24 16 20 12	15	I	
24 16 20 12	22	ı	
16 20 12	16	ı	
20	24	ı	
12	16	ı	
	20	ı	
27	12	I	
	27	I	

What is the median price of the watches in dollars?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

Item Analysis		
Verb	Summarize	
Using or Including	Table	
Concept	Median	
Process TEKS	6.1A, 6.1B, 6.1E, 6.1F	

Provided by:

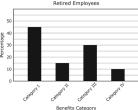


www.StepUpTEKS.com

TEKS 6.12D Readiness Standard summaries 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

ITEM

37 Employees who have retired from a company are placed in different benefit categories. The bar graph shows the percentages of the retired employees in different benefit categories.



Which statement about the employees is supported by the data in the bar graph?

- More than half the employees are in Category I.
- The number of employees in Category II is twice the number of employees in Category III.
- The number of employees in Category II or Category III is greater than the number of employees in Category I.
- The number of employees in Category I is three times the number of employees in Category II.

Item Analysis		
Verb	Summarize	
Using or Including	Bar Graph	
Concept	Numeric Data Summarized	
Process TEKS	6.1A, 6.1B, 6.1E, 6.1G	

Provided by:



6th Grade Math

EKS 6.13A Readiness Standard

interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots

ITEM

Item Analysis

19 The stem and leaf plot shows the percentage of questions on a Spanish test that were answered correctly by each student in a class.

Spanish Test			
Stem	Leaf		
7	00055555		
8 000555			
9 0055			
10	0		
7 0 means 70%.			

Which statement is true?

- **A** Nine students answered 55% of the questions correctly.
- **B** Half the students answered 70% or 75% of the questions correctly.
- **C** Eight students answered more than 80% of the questions correctly.
- **D** Ten students answered 100% of the questions correctly.

Item Analysis		
Verb	Interpret	
Using or Including	Stem-and-Leaf Plot	
Concept	Numeric Data Summarized	
Process TEKS	6.1A, 6.1B, 6.1E, 6.1G	

Provided by:



www.StepUpTEKS.com

TEKS 6.14E Supporting Standard describe the information in a credit report and how long it is retained

ITEM

- **15** Consumers sometimes make choices that cause negative information to be put on their credit reports. Which of these is the most likely number of years that this negative information will remain on their credit reports?
 - Α 3 to 6 years
 - 7 to 10 years
 - 11 to 14 years
 - **D** 15 to 18 years

Item Analysis		
Verb	Distinguish	
Using or Including	NA	
Concept	Credit Report	
Process TEKS	6.1A, 6.1B, 6.1F	

Provided by:





6th Grade Math

TEKS 6.14H Supporting Standard

compare the annual salary of several occupations requiring various levels of post-secondary education or vocational training and calculate the effects of the different annual salaries on lifetime income

ITEM

9 The table shows the approximate median annual salaries associated with two levels of education.

Median Annual Salaries

Level of	Bachelor's	Master's
Education	degree	degree
Median Annual Salary (dollars)	57,600	69,100

Based on the data in the table, how much more money would a person with a master's degree earn than a person with a bachelor's degree over 35-year career?

- \$402,500 Α
- \$126,770
- \$11,500
- **D** \$4,434,500

Item Analysis		
Verb	Calculate	
Using or Including	NA	
Concept	Annual Salaries	
Process TEKS	6.1A, 6.1B, 6.1E, 6.1F	

Provided by:



ITEM	Item Analysis	
	Verb	
	Using or Including	
	Concept	
	Process TEKS	
		Educators STEP UP TO THE TEKS

Category 1 Numerical Representations and Relationships

10 Total Ouestions

10 Total Questions							
TEKS	Item	Correct Answer	Process TEKS				
6.2A classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers	36	G	6.1B, 6.1E, 6.1F				
6.2B identify a number, its opposite, and its absolute value	3	D	6.1A, 6.1B, 6.1F				
6.2C locate, compare, and order integers and rational numbers using a number line	NT						
6.2D order a set of rational numbers arising from mathematical and real-world	14	F	6.1A, 6.1B, 6.1F				
contexts	30	Н	6.1B, 6.1F				
6.2E extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$ where $b \ne 0$	NT						
6.4C give examples of ratios as multiplicative comparisons of two quantities describing the same attribute	NT						
6.4D give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients	NT						
6.4E represent ratios and percents with concrete models, fractions, and decimals	NT						
6.4F represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers	6	G	6.1A, 6.1B, 6.1E, 6.1F				
6.4G generate equivalent forms of fractions, decimals, and percents using real-	10	0.17	6.1A, 6.1B, 6.1F				
decimals, and percents using real- world problems, including problems that involve money	23	D	6.1A, 6.1B, 6.1F				
6.5C use equivalent fractions, decimals, and percents to show equal parts of the same whole	NT						
6.7A generate equivalent numerical expressions using order of operations,	12	F	6.1B, 6.1F				
including whole number exponents, and prime factorization	32	Н	6.1A, 6.1B, 6.1F				
6.7B distinguish between expressions and equations verbally, numerically, and algebraically	NT						
6.7C determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations	NT						
6.7D generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties	8	J	6.1A, 6.1B, 6.1F				

Shaded - Readiness TEKS, NT - Not Tested Readiness TEKS - 7/10 questions

Category 2 Computations and Algebraic Relationships

15 Total Questions

TEKS	5	Item	Correct	Process TEKS
		100111	Answer	Troccss TERS
r	recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values	NT		
v v	determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one	NT		
r	represent integer operations with concrete models and connect the actions with the models to standardized algorithms	24	G	6.1B, 6.1E, 6.1F
	add, subtract, multiply, and divide integers luently	1	Α	6.1A, 6.1B, 6.1F
	acity	33	-14	6.1A, 6.1B, 6.1F
	multiply and divide positive rational numbers luently	18	J	6.1A, 6.1B, 6.1F
<u>c</u>	compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships	NT		
S	apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates	20	F	6.1A, 6.1B. 6.1E, 6.1F
i	represent mathematical and real-world problems nvolving ratios and rates using scale factors, tables, graphs, and proportions	NT		
a	solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent	11	С	6.1A, 6.1B, 6.1F
C	given the part and the whole, including the use of concrete and pictorial models	31	Α	6.1A, 6.1B, 6.1F
	dentify independent and dependent quantities rom tables and graphs	28	J	6.1A, 6.1B, 6.1E, 6.1F
l t	write an equation that represents the relationship petween independent and dependent quantities from a table	NT		
6.6C r	epresent a given situation using verbal descriptions, tables, graphs, and equations in the	5	A	6.1A, 6.1B. 6.1D, 6.1F
	form $y = kx$ or $y = x + b$	25	Α	6.1A, 6.1B. 6.1D, 6.1G
i	write one-variable, one-step equations and nequalities to represent constraints or conditions within problems	NT		
6.9B r	represent solutions for one-variable, one-step equations and inequalities on number lines	16	н	6.1B, 6.1E, 6.1F
6.9C v	write corresponding real-world problems given one-variable, one-step equations or inequalities	26	J	6.1A, 6.1B, 6.1G
6.10A	model and solve one-variable, one-step equations and inequalities that represent	13	С	6.1A, 6.1B, 6.1F
	problems, including geometric concepts	38	Н	6.1B, 6.1C. 6.1E, 6.1F
6.10B	determine if the given value(s) make(s) one- variable, one-step equations or inequalities true	22	Н	6.1B, 6.1F

Shaded - Readiness TEKS, NT - Not Tested Readiness TEKS - 10/15 questions

Category 3 Geometry and Measurement 6 Total Questions

TEKS	Item	Correct Answer	Process TEKS
6.4H convert units within a measurement system, including the use of proportions and unit rates	7	С	6.1A, 6.1B. 6.1C, 6.1F
6.8A extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and determining when three lengths form a triangle	25	A	6.1B, 6.1C, 6.1F
6.8B model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes	NT		
6.8C write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers	2	G	6.1A, 6.1B, 6.1C, 6.1E, 6.1F
6.8D determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers	17	A	6.1B, 6.1C. 6.1E, 6.1F
	34	Н	6.1A, 6.1B. 6.1C, 6.1E, 6.1F
6.11A graph points in all four quadrants using ordered pairs of rational numbers	21	-6	6.1B, 6.1E, 6.1F

Shaded - Readiness TEKS, NT - Not Tested Readiness TEKS - 4/6 questions

Category 4 Data Analysis and Personal Finance

7 Total Questions

TEKS	Item	1	Process TEKS
6.12A represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots	27		6.1A, 6.1B, 6.1D, 6.1F
6.12B use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution	NT		
6.12C summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interpretable range (ICP) (measures)	4		6.1A, 6.1B. 6.1E, 6.1F
interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution	29		6.1A, 6.1B. 6.1E, 6.1F
6.12D 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	37		6.1A, 6.1B. 6.1E, 6.1G
6.13A interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots	19		6.1A, 6.1B. 6.1E, 6.1G
6.13B distinguish between situations that yield data with and without variability	NT		
6.14A compare the features and costs of a checking account and a debit card offered by different local financial institutions	NT		
6.14B distinguish between debit cards and credit cards	NT		
6.14C balance a check register that includes deposits, withdrawals, and transfers	NT		
6.14E describe the information in a credit report and how long it is retained	15		6.1B, 6.1E, 6.1F
6.14F describe the value of credit reports to borrowers and to lenders	NT		
6.14G explain various methods to pay for college, including through savings, grants, scholarships, student loans, and work-study	NT		
6.14H compare the annual salary of several occupations requiring various levels of post-secondary education or vocational training and calculate the effects of the different annual salaries on lifetime income	9		6.1A, 6.1B, 6.1E, 6.1F

Shaded - Readiness TEKS, NT - Not Tested Readiness TEKS - 4/7 questions