

# The Mighty Mathematician

**NEW  
FORMAT**

**Updated  
Questions**

**16-20  
Practice  
Opportunities**

**POWER-TEK**  
*Edition*

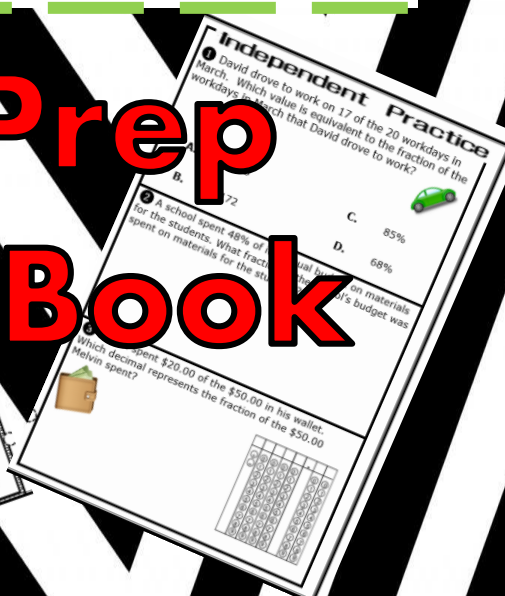
**Readiness Review**

Series 1

**All Readiness Objectives**

- "I Do" Questions
- "We Do" Questions
- "You Do" Questions
- Partner Practice
- Skill Builders
- Vocabulary
- Notes & Workspace

**STAAR Prep  
DELUXE Book**



**Notes | Vocabulary | Practice**

## From The Mighty Mathematician,

Welcome and thank you for your purchase of materials from THE MIGHTY MATHEMATICIAN. Please be sure to rate your purchase and if you have any questions/comments/request please feel free to contact me on Teachers Pay Teachers.

### The Product Purchase:

#### The "Power" TEKS – DELUXE Edition

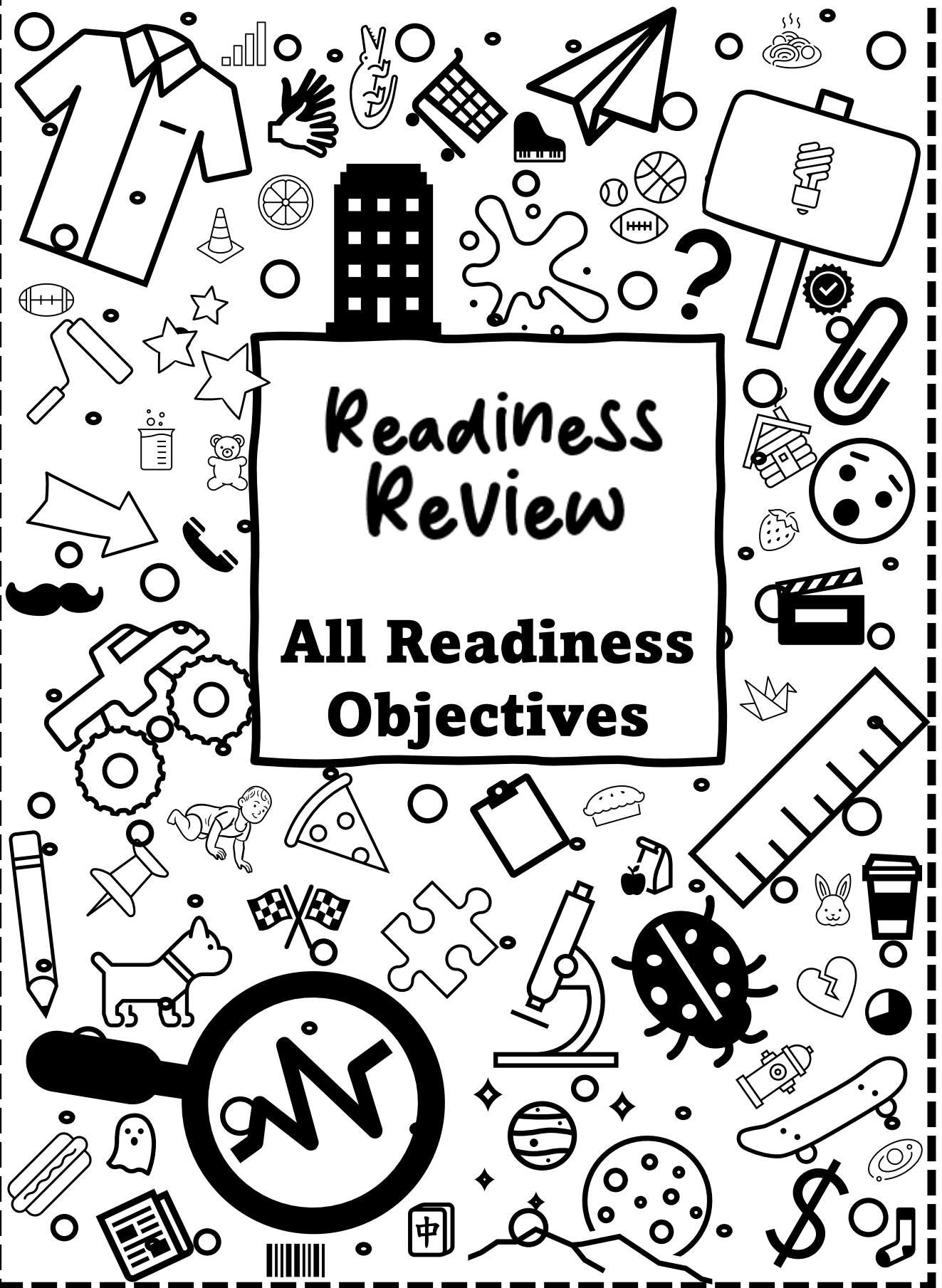
The "Power" TEK Prep Book takes an opportunity to focus on STAAR Readiness TEKS for 6th Grade Math in Texas. This resource also has a blank pages for personal instruction. The Readiness Standards are 60-65% of the STAAR test. The questions are written in the style of the Readiness questions on previous STAAR tests. The "Power" TEKS - Edition Book can be used for the introduction, small groups, reteaching, intervention/tutorials, and homework. With additional questions, workspace, notes, and exit ticket. Thank you for purchasing the DELUXE Edition. Use pre-made notes and vocabulary or provided templates to customize your teaching. Excellent pair with Supporting Do Nows, also available.



### Contents: All STAAR Focused

- 2-3 "I Do" Questions
- Vocabulary
- Notes/Review
- 3 "We Do" Questions
- 4 "Do Together" Partner Questions
- 4 "You Do" Questions
- 2 Exit Tickets
- Objective Recap Area
- More workspace, more questions, more types of questions, and more!

# All Readiness Objectives



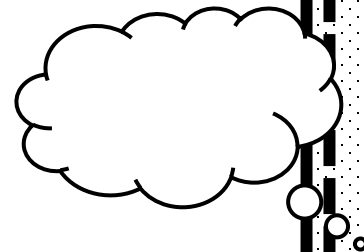
**Objective :**

Teacher Notes





# Brain Dump



EXAMPLE

①  $9 \div \frac{3}{4}$

②  $s - 39 > 12$

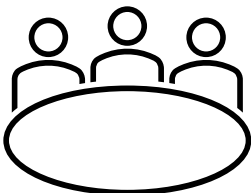
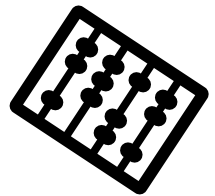

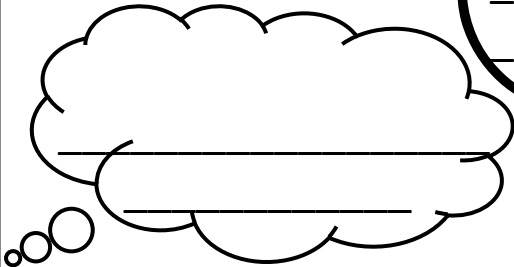
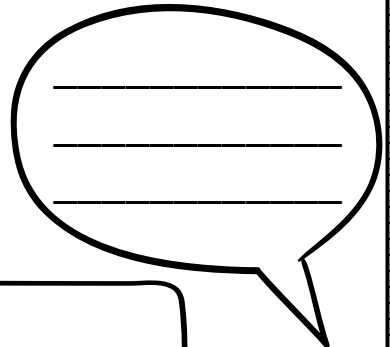
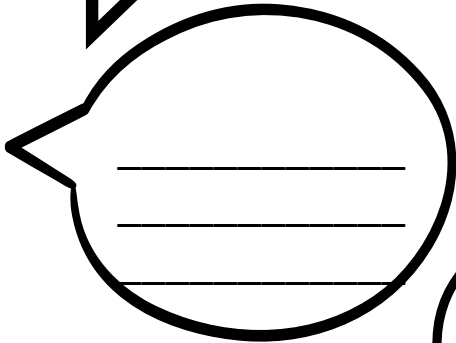
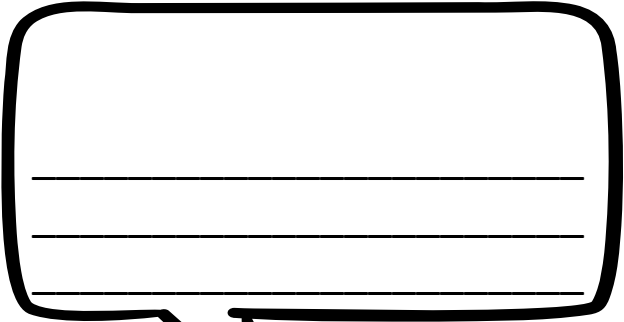
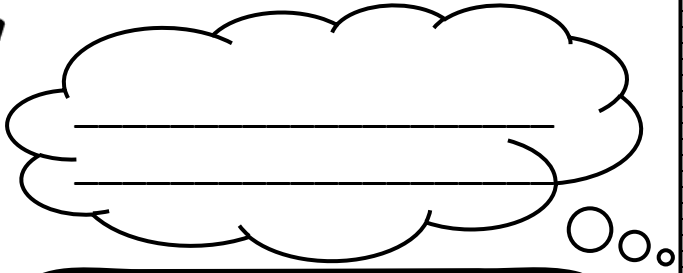
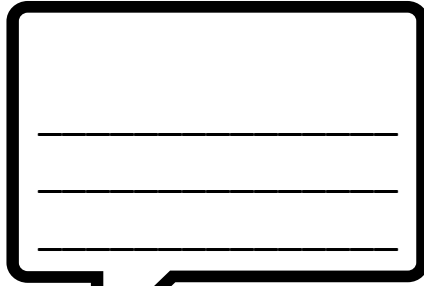


③  $\$3.78 \cdot 34$

④

Fraction	Decimal	Percent
		65%

# Vocabulary



1 To build a positive credit history, I should pay cash.

**TRUE** or **FALSE**

2 Place the fractions in order from least to greatest.

$\frac{3}{5}$        $\frac{3}{8}$        $\frac{2}{3}$        $\frac{1}{4}$

3 What is 75% of 80?

4 Label the quadrants below

A. (-3.2 , 2)

B. (4 , 6)

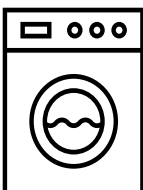
C. ( $1\frac{1}{3}$  , -5)

5 Model  $-7 + 4$

6

Purchase No.	Date	Transaction	Debit		Credit		Balance	
							\$178.30	
#102	7/18	Paycheck			732	64		
#103	7/22	Pam's Pantry	71	50				
#104	8/1	Rent	512	00				
#105	8/3	Refund			26	41		

After 8/3, what is Joy's balance in her account?



# REVIEW PRACTICE

**1** Emma is organizing a collection of numbers in ascending order. Which list could be the one Emma created? **(6.2D)**



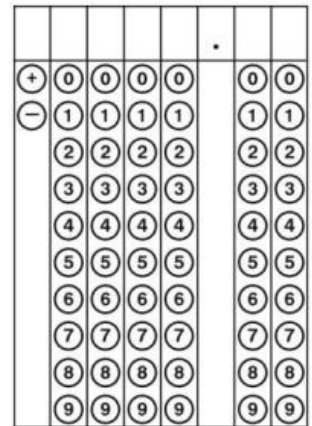
**A** 0.63 45%  $\frac{2}{5}$  0.77 60%  $\frac{7}{10}$

**B** 45% 60% 0.63  $\frac{2}{5}$  0.77  $\frac{7}{10}$

**C**  $\frac{2}{5}$  45% 60% 0.63  $\frac{7}{10}$  0.77

**D** 0.63 45%  $\frac{2}{5}$  0.77  $\frac{7}{10}$  60%

**2** Nia had \$350 to spend. She returned a pair of shoes and received a \$90 refund. She then bought a dress for \$180. How much money in dollars and cents did Nia have to spend after buying the dress? **(6.3D)**



**3** Liam earns \$9.80 for each hour of work as a tutor. How much will he earn for working 8.5 hours as a tutor? **(6.3E)**



**F** \$75.50

**G** \$83.30

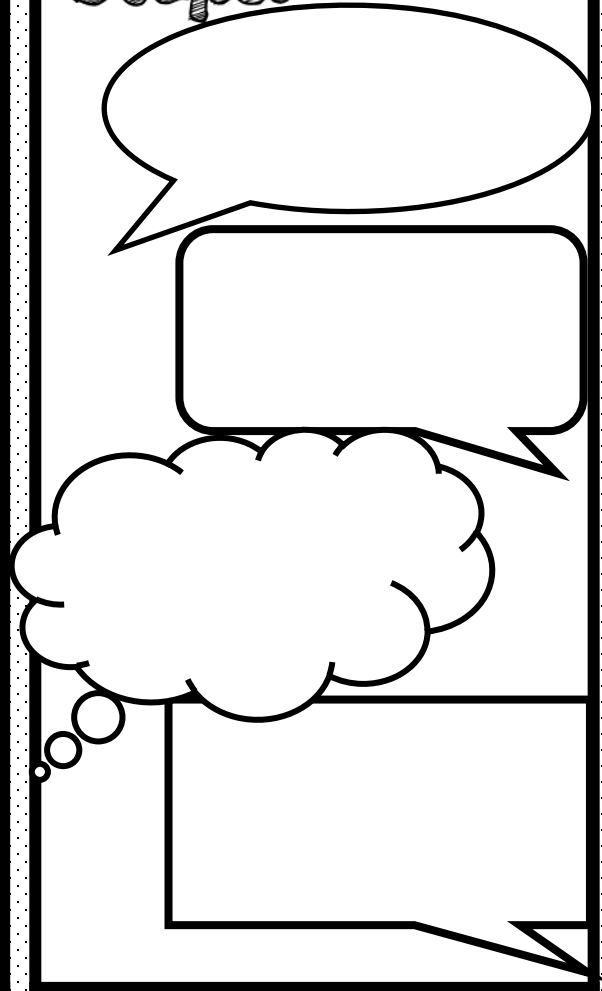
**H** \$90.25

**J** \$97.62



Workspace

Steps:



**Who's CORRECT?** Determine who is correct. Explain your reasoning.

The annual salary of a police officer is \$53,220. The annual salary of a flight attendant is \$ 60,680. How much more would the flight attendant earn in 25 years compared to the police officer?



**Amber**  
\$97,460



**Chris**  
\$12,420



**Amber**  
\$113,900



**Donny**  
\$186,500

**WRITTEN RESPONSE**

**4** Kevin and Jose are both running laps on a track.

- Kevin can run 9 laps in 6 minutes.
- Jose can run 5 laps in 2 minutes.

Based on these rates, which statement is TRUE? **(6.4B)**

- A** Kevin can run 10 laps in 7 minutes.  
**B** Jose can run 6 laps in 3 minutes.  
**C** Jose can run 2 lap farther than Kevin in 2 minutes.  
**D** Kevin can run 1.5 laps farther than Jose in 4 minutes



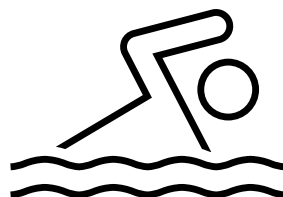
**5** Francisca spent \$28.00 out of the \$40.00 she had in her wallet. Which decimal represents the fraction of the \$40.00 Francisca spent? **(6.4G)**

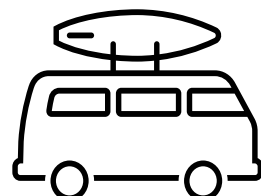
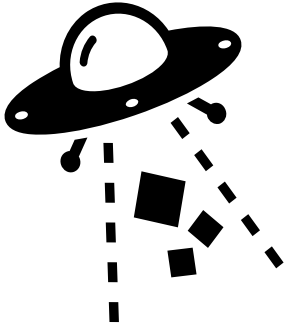
- F** 0.70                      **G** 0.28  
**H** 0.65                      **J** 0.72



**6** The length of a swimming pool is 53 feet 9 inches. What is the total length of the swimming pool in inches? **(6.4H)**

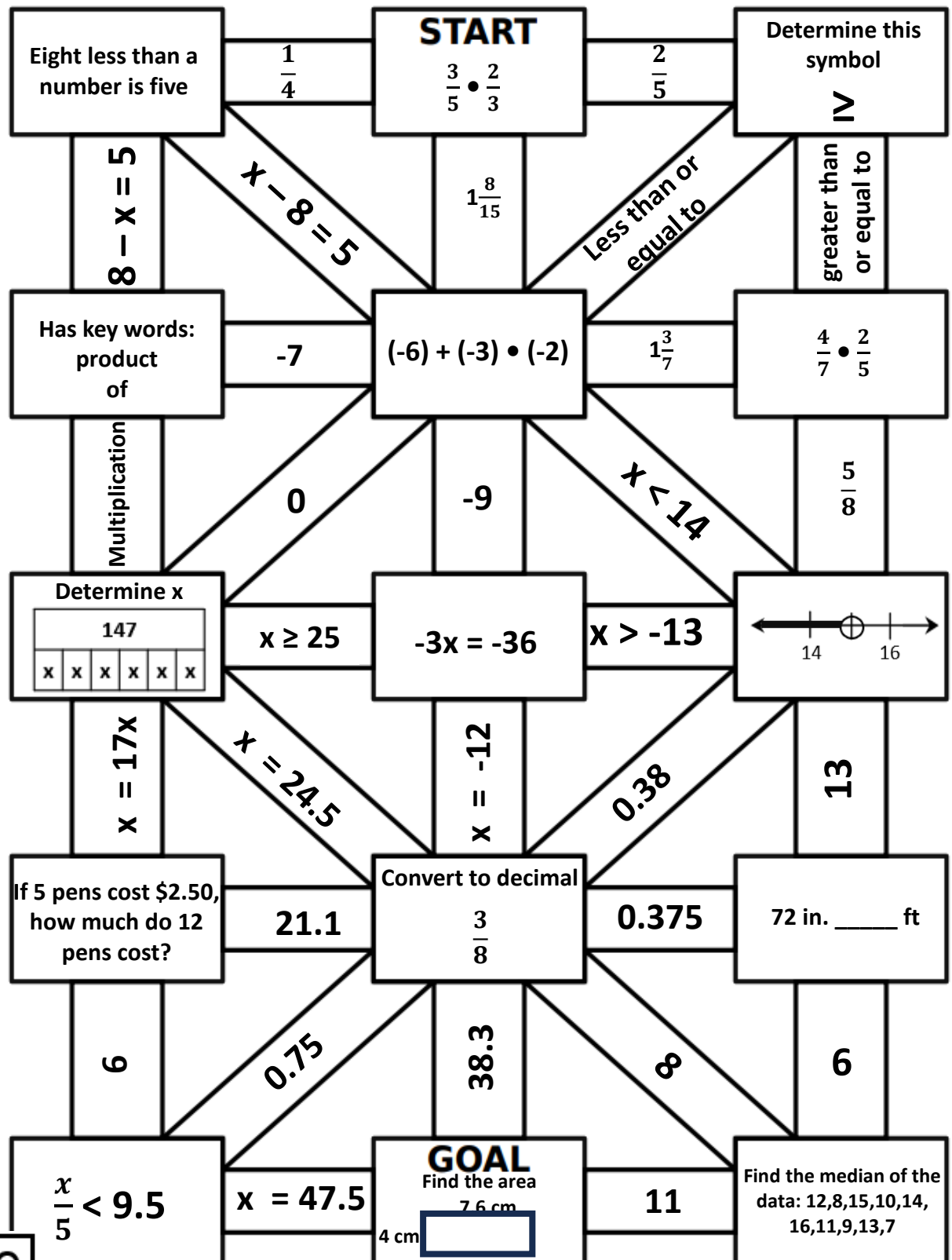
					.		
+	0	0	0	0		0	0
-	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

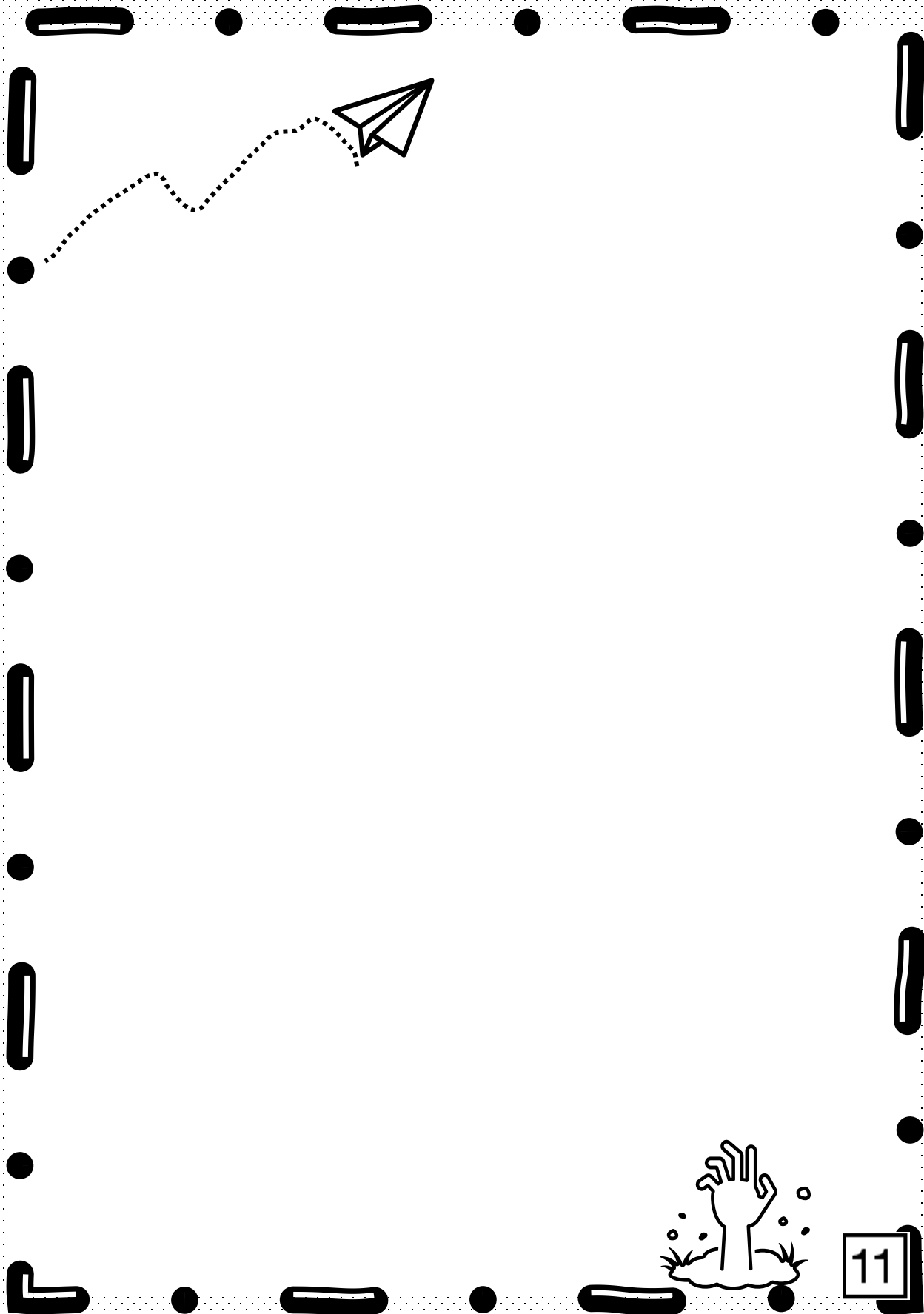




Use your know knowledge of equations and inequalities to get from start to finish.

## Partner Work





7 During a 120-minute concert, a guitarist was on stage 75% of the time. What amount of time in minutes was the guitarist on stage? **(6.5B)**



8 Which expression is equivalent to  $24 + 4^3$ ? **(6.7A)**

**A**  $(24 + 4)^3$

**B**  $3(24 + 4)$

**C**  $(24 \cdot 3) + (4 \cdot 3)$

**D**  $24 + 4 \cdot 3$

**E** None of these



9 Which expression is equivalent to  $4 + (5 \cdot m)$ ? **(6.7D)**

**F**  $(m \cdot 5) + 4$

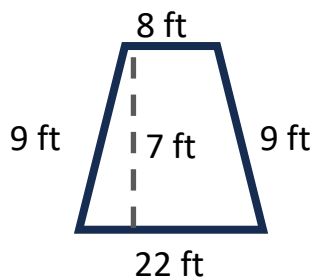
**G**  $(4 + 5) \cdot m$

**H**  $4(m \cdot 5)$

**J**  $(5 + m) \cdot 4$



10 Ms. Green is building a garden that is shaped like a trapezoid. The dimensions of the garden are shown in the diagram. **(6.8D)**



What is the area of the garden in square feet?

11 James works at Paula's Pantry. He worked one year and earned 45 hours of vacation. Which table best shows the relationships between  $m$ , month of work and  $v$ , hours of vacation? **(6.6C)**



**A**

Months of Work, $m$	Hours of Vacation, $v$
1	45
2	90
3	135
4	180

**B**

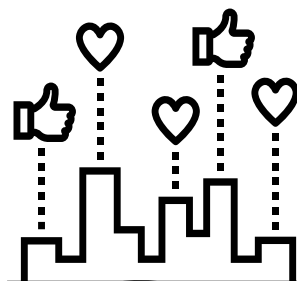
Months of Work, $m$	Hours of Vacation, $v$
3	12
4	24
5	36
6	48

**C**

Months of Work, $m$	Hours of Vacation, $v$
2	7.50
3	11.25
4	15
5	18.75

**D**

Months of Work, $m$	Hours of Vacation, $v$
3.75	1
7.50	2
11.25	3
18.75	4



- ⑫ Kevin wants to buy a new bicycle that costs at least \$120. He decides to earn money by mowing lawns. If Kevin earns \$10 for each lawn he mows, how many lawns would he need to mow to have enough money to buy the bicycle? **(6.10A)**

**A**  $x > 12$

**B**  $x \geq 12$

**C**  $x \leq 12$

**D**  $x > 12$



- ⑬ James is buying jeans. Determine the median and range of the jeans. **(6.12 C)**

**Jean Cost**

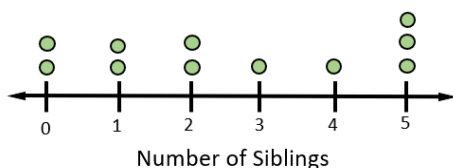
Price
24
78
60
29
57

**Median:**

**Range:**



- ⑭ Ms. Mack asked her students the number of siblings they had, and the results are below.



What is the interquartile range of the data? **(6.12C)**



- ⑮ Students were asked favorite color. Determine the relative frequency and complete the percentage graph? **(6.12D)**

Purple	Green	Red	Blue
6	3	12	9
%	%	%	%

- ⑯ The data below represents the scores of students in a math test:

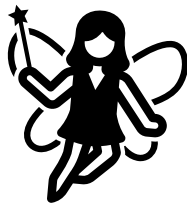
Stem	Leaf
7	2 3 6 8
8	0 2 5 8
9	0 5



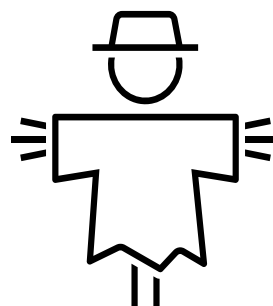
Which statement (s) are best supported by the data? **(6.13A)**

- A** The average score is greater than 80.
- B** There are more students with scores between 75 and 85 than with scores between 85 and 95.
- C** The range of scores is 23.
- D** The median is 80.
- E** More than 50% of the student scored an 88 or higher on the math test.

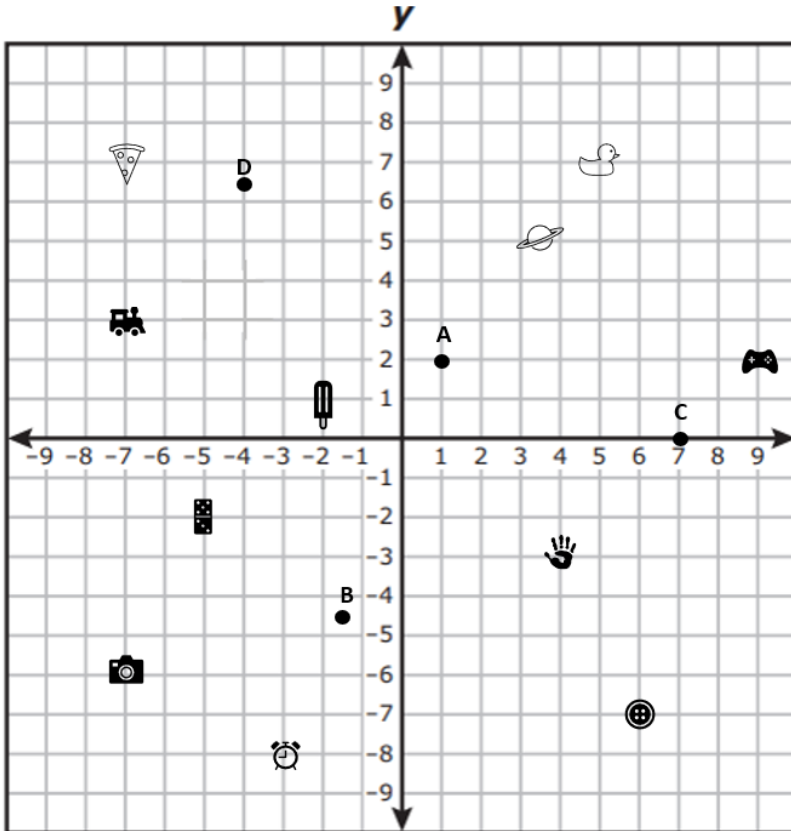




# Workspace






17 Use the coordinate grid to answer the following questions. (6.11A)




- Plot the following plots
  - E  $(-5, -8.5)$
  - F  $(0, 6)$
  - G  $(0, 0)$

- Locate the following ordered pairs

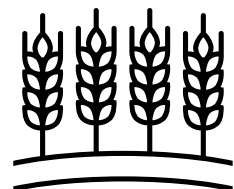
-  :  $(\quad, \quad)$
-  :  $(\quad, \quad)$
-  :  $(\quad, \quad)$

- Determine the quadrant

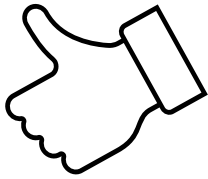
- $(-2.4, 2)$  \_\_\_\_\_
- $(\frac{1}{4}, \frac{3}{4})$  \_\_\_\_\_
- $(\quad, \quad)$   \_\_\_\_\_
- $(5, -3.6)$  \_\_\_\_\_

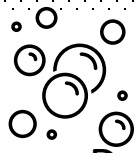


DOODLE AREA

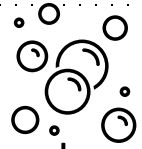


# Workspace





# Review Recap



Draw and/or write key ideas to what you learned.



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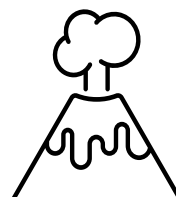
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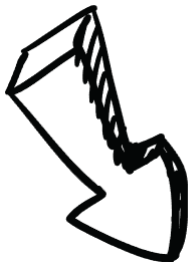
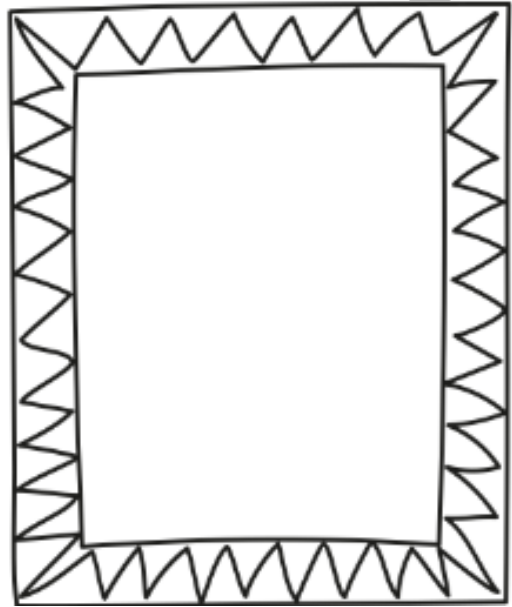
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# NOTES





20



Locate the following equation and inequality terms in the word search:

## Readiness Review

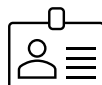
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R	I	Q	U	A	D	R	A	N	T	R	A	T	E
U	F	T	T	E	I	R	R	T	I	L	I	V	E
F	A	R	A	N	G	E	O	D	D	G	A	L	Y
I	O	P	A	R	E	L	B	A	I	R	A	V	N
N	T	D	C	C	P	A	D	D	I	T	I	V	E
A	R	E	A	X	T	E	I	A	G	D	D	L	M
N	T	I	O	T	N	I	B	N	I	E	E	A	E
C	R	B	C	I	E	I	O	A	T	U	I	M	T
I	N	A	G	M	L	C	Y	N	T	E	N	I	R
A	C	I	U	I	M	E	D	I	A	N	G	C	I
L	R	L	T	T	T	R	I	A	N	G	L	E	C
O	O	Y	U	T	N	E	C	R	E	P	I	D	R
V	C	U	S	T	O	M	A	R	Y	I	T	T	L

AREA  
CUSTOMARY  
VARIABILITY  
RANGE  
PERCENT  
INTEGER  
VARIABLE  
RATE  
VOLUME  
BOXPLOT  
EQUIVALENT

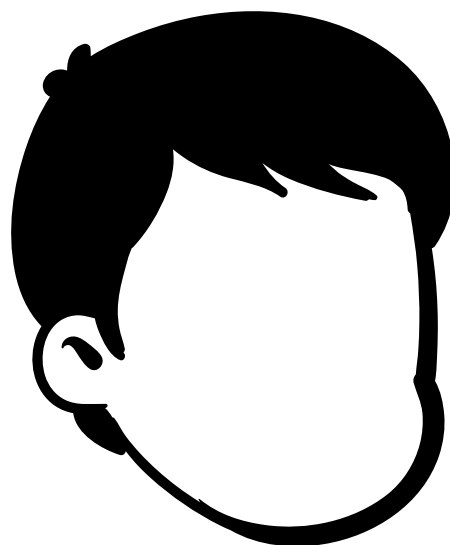
QUADRANT  
TRIANGLE  
RATIO  
METRIC  
ADDITIVE  
FINANCIAL  
DECIMAL  
FRACTION  
ORIGIN  
MEDIAN



## Find Me!



## Draw Me A Face!







# **Answer Key**

**Qc.**


$$S + A$$

1

奇

K<sub>x</sub>

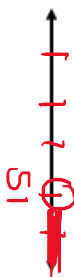
- + independent, dependent

$$+ \sum_{i=1}^m 2 \cdot 2 \cdot 2$$

Greater loss

①  $9 \div 4 = 2 \frac{1}{2}$

$$\begin{array}{r} 5 - 39 \times 12 \\ + 39 \end{array} \quad 5751$$



## EXAMPLE

③  $\$3.78 \cdot 34$

\$128.52

Fraction	Decimal	Percent
$\frac{13}{20}$	0.65	65%

ω



The annual salary of a police officer is \$53,220. The annual salary of a flight attendant is \$60,680. How much more would the flight attendant earn in 25 years compared to the police officer?



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**WRITTEN RESPONSE**

7

## 1 \$97.62



7 During a 120-minute concert, a guitarist was on stage 75% of the time. What amount of time in minutes was the guitarist on stage? (6.5B)



90 mins.

8 Which expression is equivalent to  $24 + 4^3$ ? (6.7A)

- A  $(24 + 4)^3$   
 B  $3(24 + 4)$   
 C  $(24 \cdot 3) + (4 \cdot 3)$   
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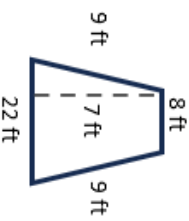


9 Which expression is equivalent to  $4 + (5 \cdot m)$ ? (6.7D)

- F  $m \cdot 5 + 4$   
 G  $(4 + 5) \cdot m$   
 H  $4(m \cdot 5)$   
 J  $(5 + m) \cdot 4$



10 Ms. Green is building a garden that is shaped like a trapezoid. The dimensions of the garden are shown in the diagram. (6.8D)



What is the area of the garden in square feet?

105 ft<sup>2</sup>

11 James works at Paula's Pantry. He worked one year and earned 45 hours of vacation. Which table best shows the relationships between  $m$ , month of work and  $v$ , hours of vacation? (6.6C)



Months of Work, $m$	Hours of Vacation, $v$
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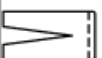
Months of Work, $m$	Hours of Vacation, $v$
3.75	1
7.50	2
11.25	3
18.75	4

12 Kevin wants to buy a new bicycle that costs at least \$120. He decides to earn money by mowing lawns. If Kevin earns \$10 for each lawn he mows, how many lawns would he need to mow to have enough money to buy the bicycle? (6.10A)

- A  $x > 12$   
 B  $x \geq 12$   
 C  $x \leq 12$   
 D  $x > 12$



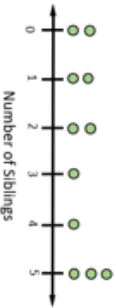
13 James is buying jeans. Determine the median and range of the jeans. (6.12 C)



Median: 57  
 Range: 54

Jean Cost
Price
24
78
60
29
57

14 Ms. Mack asked her students the number of siblings they had, and the results are below.



What is the interquartile range of the data? (6.12C)

4



15 Students were asked favorite color. Determine the relative frequency and complete the percentage graph? (6.12D)

Purple	Green	Red	Blue
6	3	12	9
20%	10%	40%	30%

16 The data below represents the scores of students in a math test:

Stem	Leaf
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8	0 2 5 8
9	0 5

Which statement(s) are best supported by the data? (6.13A)

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 B There are more students with scores between 75 and 85 than with scores between 85 and 95.  
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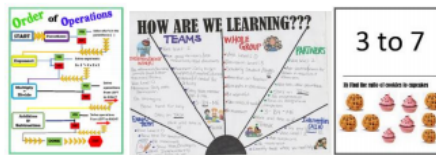




# THANK YOU

## for your PURCHASE!!!

Please check out other products from The Mighty Mathematician: [The Ratio/Rate Scavenger Hunt](#), [The Champs Classroom Management Chart](#), and [PEMDAS Order of Operations Anchor Chart](#)!!!



Find more of The Mighty Mathematician at:

<https://www.teacherspayteachers.com/Store/The-Mighty-Mathematician>

<https://mathhacksfrommack.com/>



The Mighty Mathematician

★ Following



Please check out other products from The Mighty Mathematician: [Equation Dominos](#), [Kash-In: Classroom Management Tool](#), [All About Me Pennant](#), and [STAAR Review Booklets](#).

