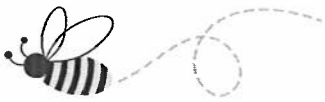
2024 Incoming 8th Grade Math Summer Packet

Hello and Happy Summer!

This packet contains a summary of most of the skills that we worked on this year. It is not intended to be completed in a short amount of time. Avoid using online calculators and AI websites to do this work. It will be a disservice to yourself to let something else do the thinking for you.

Pace yourself over the summer and ensure that you are still able to demonstrate the skills when you come back to school in the Fall.
I am excited to see you then!

~ Ms. Wright



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Methodical Problem Solving - Sudoku

7		4	5	3		2		
		8	1	6				
1		2				6	8	5
		7	9	1			6	8
		5			7	3		2
6	8			5	4	1	9	
			7			8		
2	5					4	7	3
				4			2	6

Decimal Operations (signed)

*Solve - show your work to receive credit

$0.7 - (-1.4) =$	$-0.2 + -1.6 =$	$3.2 + -1.3 =$
$1.5 + -2.6 =$	$-0.3 + 1.2 =$	$2.4 - (-2.8) =$
$-4.4 + 5.4 =$	$-0.5 - (-4.5) =$	$-5.4 + 5.5 =$

*Correctly set up the problem and solve - show your work to receive credit

$-1.5 \times -1.2 =$	$0.3 \times -4.5 =$	$-0.4 \times -1.3 =$
$2.3 \times -5 =$	$-1.1 \times -2.2 =$	$4.2 \times -1.6 =$
$7.5 \div -5 =$	$-3.6 \div -2.4 =$	$4.8 \div -1.6 =$
$9 \div -1.5 =$	$-6.5 \div 1.3 =$	$7.5 \div -1.5 =$

Decimal Operations - Word Problems

5) Tiffany was checking the weight of a gold nugget and a piece of fool's gold. Together they weighed 92.5 grams. If the fool's gold was 23.80 grams, how much did the gold nugget weigh?

6) A weatherman was measuring the amount of rain two cities received over a week. City A received 9.46 inches while City B received 6.6 inches. How much rain did they get total?

7) Jerry was checking how much power his lights used. His first light by itself used 57.19 amps. When he turned on the second light, together they used 147.59 amps. How many amps did just the second light use?

8) Mike was training for a marathon. On his first day he ran 3.71 kilometers. On the second day he ran 1.4 kilometers. How far did he run altogether?

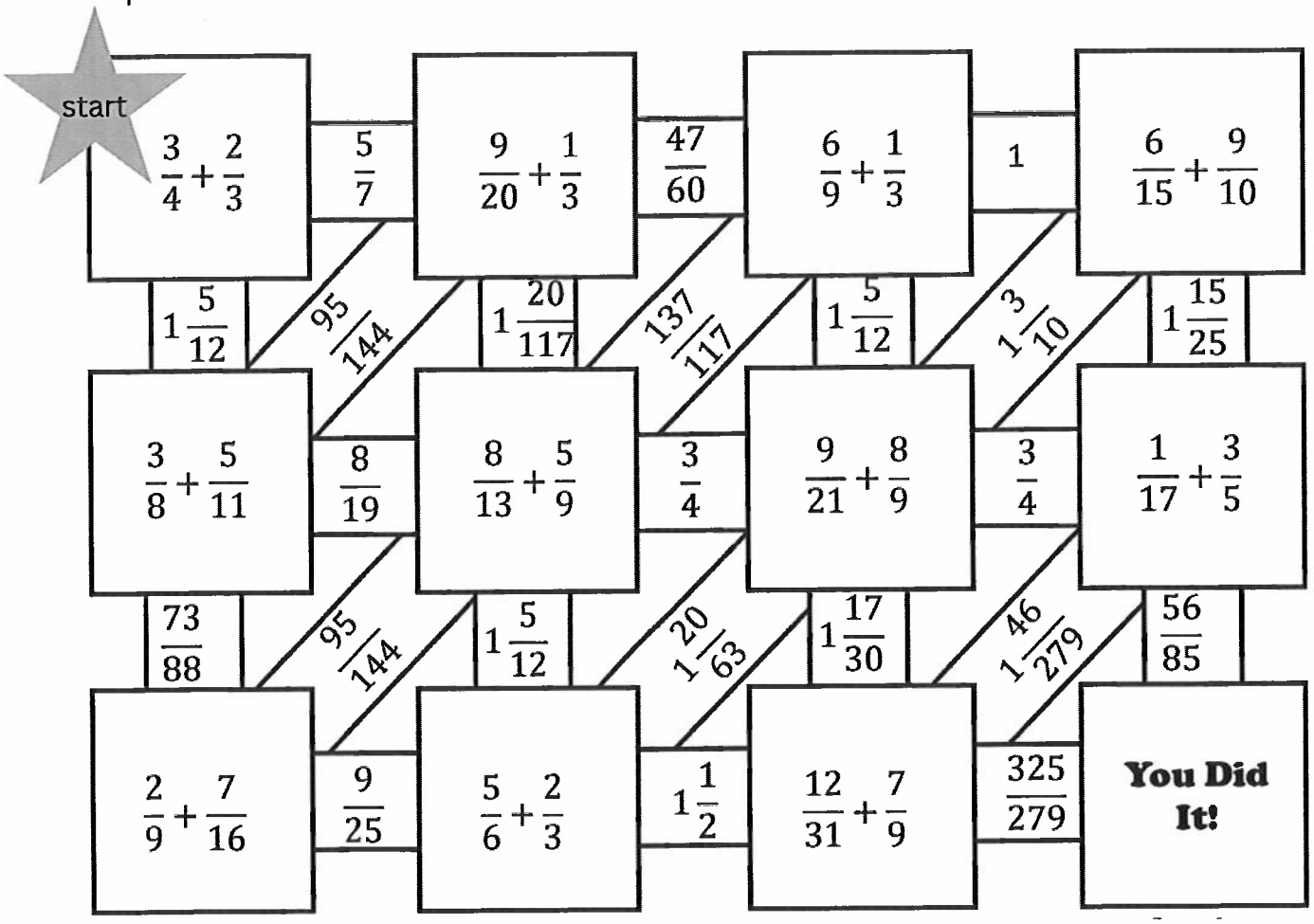
9) Emily downloaded two apps which were 10.45 kb total. If one app was 6.55 kb, how big was the other app?

10) Paul was weighing the amount of candy he received for Halloween. If he received 5.49 kg and his brother received 9.7 kg, how much candy did they get all together?

Write the greatest common factor AND Lowest Common Multiple for each set of numbers

	12 and 20	25 and 75	36 and 90	8 and 56	20 and 50	14 and 35
GCF						
LCM						

Complete the maze.



Write the following numerals in expanded form and standard form.

S.No	Exponential Form	Expanded Form	Standard Form
1)	$(-2)^6$		
2)	9^4		

Write the following numerals in exponential form with the given bases.

S.No	Standard Form	Base	Exponential Form
1)	2,401	–7	
2)	512	2	
3)	–7,776	–6	

Solve - show your work to receive credit.

1) $\frac{2^2 \cdot 3^5}{6^3}$

2) $8^{-3} \cdot (-8)^4 + 6^2$

3) $(-5)^5 - (-9)^3$

Simplify in Exponential Form, then solve.

1. $(7^4)^8$

2. $3^7 \cdot 3^7$

3. $\frac{4^3}{4^3}$

4. $2^6 \cdot 2^5$

5. $\frac{5^3}{5^8}$

6. $5^7 \cdot 8^7$

Solve using the order of operations - show your work to receive credit.

1) $(20 + 80 \div 2 \times 8) \div [(54 \div 9 + 14) \div 4]$

2) $3 \times [64 \div (13 - 5) - 4] \times 42 \div 6$

3) $\{24 \div [(8 \times 3) \div 4] \times 2\} \times (15 - 4)$

4) $[5 \times (54 \div 6 - 3)] + 6 \times 2 - 30$

5) $(78 - 6) \div \{18 \times [(8 - 7) \times 2]\}$

6) $\{96 \div [36 \div 3 - (18 \times 2 - 30)]\} \div (31 - 16 + 1)$

Rational or Irrational?!?!

Directions:

- Color all rational numbers blue
- Leave all irrational numbers white

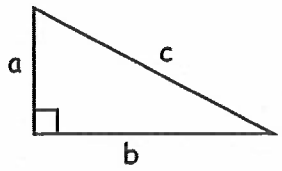
Irrationals include:

- Non-terminating decimals and non-repeating
- Non-perfect squares

$\sqrt{7}$	$\sqrt{64}$	$1/2$	-7.165	$\sqrt{7}$ / $-2/7$	2π / $-2.\overline{3}$	$\sqrt{100}$	$0.\overline{5}$	$-1/8$	$\sqrt{15}$
3.712	7.284...	$\sqrt{4}/2$	-5.5	0 | $-\pi$	π | 8	1.333	$3/11$	-10π	100.22
0.75	$\sqrt{49}$	-10π	$\sqrt{4}$ / $2\sqrt{3}$	$-\sqrt{5}$	$\sqrt{1.8}$	$-2/3$ / 6π	1.274...	$-3/16$	$\sqrt{144}$
$-1/4$	10.2	$-1/7$ / $\sqrt{13}$	-2π	$3\sqrt{1}$ / $\sqrt{40}$	1 / 14π	$\sqrt{17}$	0.25 / $\pi/4$	$5/16$	-4.5
$-2.\overline{1}$ / -2π	$\sqrt{25}$ / $\sqrt{6}$	4.271...	-55 / $\sqrt{14}$	1.75 / -4π	-200 / $\sqrt{11}$	$2\sqrt{9}$ / $\sqrt{2}$	$\sqrt{1/2}$	$\sqrt{81}$ / π	$2.\overline{7}$ / 7π
-7π / -9	$\sqrt{2}$ / $\sqrt{36}$	$\sqrt{3/4}$	$2\sqrt{5}$ / $3/2$	$\sqrt{3}$ / $-\sqrt{9}$	5π / $-\sqrt{1}$	$\sqrt{\pi}$ / 14.1	$\sqrt{11}\pi$	4.517... / $\sqrt{16}$	2π / $\sqrt{81}$
3.999	7.165	$-\pi$ / $2/5$	$\sqrt{15}$	π / $0.\overline{3}$	$3\sqrt{8}$ / -10	$\sqrt{1/6}$	-3π / -1	$3/4$	5.96
$11/2$	$\sqrt{64}$	2.523...	$\sqrt{10}$ / $\sqrt{1}$	3.128...	$\sqrt{2}/2$	$\sqrt{8}$ / -4.5	-7π	0.44 ...	-3.999
1,000	$\sqrt{8}$	$-1/8$	$\sqrt{225}$	6 | π	$-\pi$ | -7	$\sqrt{169}$	$\sqrt{1/4}$	$\sqrt{\pi}/3$	$0.32\overline{5}$
-3π	2.662	-0.25	$1/4$	-7.8 / 9π	$2/3$ / $\sqrt{\pi}$	$12.\overline{91}$	$-1/2$	$\sqrt{121}$	$\sqrt{11}$

Pythagorean Theorem

You may use a calculator for this page.

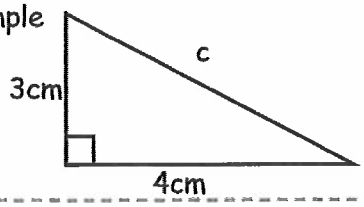


$a^2 + b^2 = c^2$ $\quad a^2 = c^2 - b^2$ $\quad b^2 = c^2 - a^2$ $\quad c^2 = a^2 + b^2$

$c^2 = a^2 + b^2$ $\quad a = \sqrt{c^2 - b^2}$ $\quad b = \sqrt{c^2 - a^2}$ $\quad c = \sqrt{a^2 + b^2}$

Use Pythagoras' theorem to find the missing sides the following right angled triangles.
(The diagrams have not been draw accurately)

Example

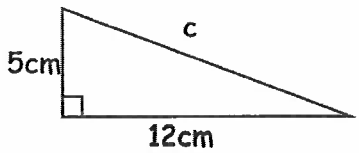


$c^2 = a^2 + b^2$ $\quad c = \sqrt{9 + 16}$

$c = \sqrt{a^2 + b^2}$ $\quad c = \sqrt{25}$

$c = \sqrt{3^2 + 4^2}$ $\quad c = 5\text{cm}$

1

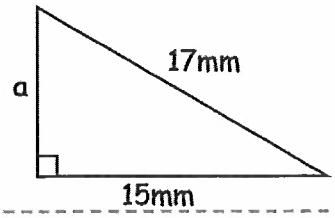


$c^2 = a^2 + b^2$ $\quad c = \sqrt{}$

$c = \sqrt{a^2 + b^2}$ $\quad c = \sqrt{}$

$c = \sqrt{ + }$ $\quad c =$

2

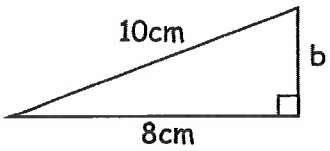


$a^2 = c^2 - b^2$ $\quad a =$

$a = \sqrt{c^2 - b^2}$ $\quad a =$

$a = \sqrt{ - }$ $\quad a =$

3

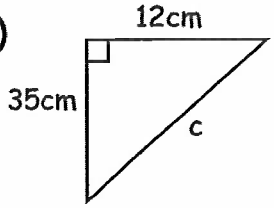


$b^2 = c^2 - a^2$ $\quad b =$

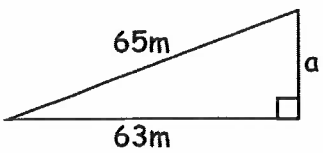
$b = \sqrt{c^2 - a^2}$ $\quad b =$

$b =$ $\quad b =$

4

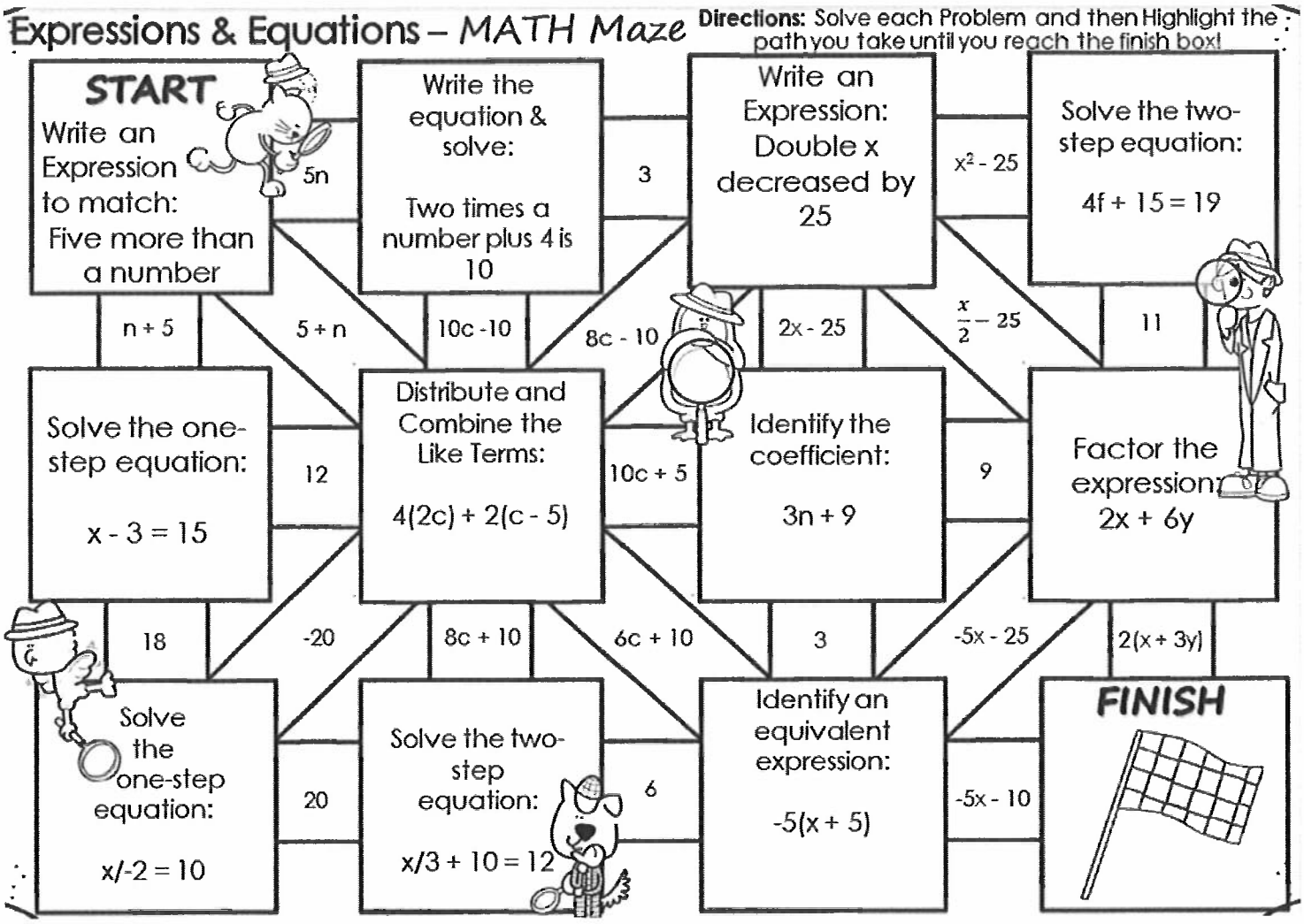


5



Expressions & Equations – MATH Maze

Directions: Solve each Problem and then Highlight the path you take until you reach the finish box!



Solve the inequality for the variable x.

1) $x - 9 \geq 8$

2) $\frac{x}{5} < 2$

3) $x + 11 > 15$

Polynomials

Part 1

Why is $\frac{1}{x}$ not a polynomial?

Define **degree** of a polynomial:

What is **standard form** for polynomials?

What is the name of a polynomial with three terms and a degree of 2?

Part 2

Polynomial	Standard Form	Degree	Two-Name Type
17			constant monomial
$5x + 9x$		1	
$-14 + 4 + 6a$			
$3p^2 - 5 + 9p$	$3p^2 + 9p - 5$		
$2x^2y^3 - x^2 + 4xy^2$			
$r(3r + r^2s)$			
$6n - 2n^2 - 2$			

- Degree Name: constant, linear, quadratic, cubic, quartic, quintic
- Term Name: monomial, binomial, trinomial

Graphing Ordered Pairs

For each Shape plot the ordered pairs on the axis and connect them in order.
Do not connect the Shapes to each other.

Shape 1
(0,9) , (1,8) , (1.5,7) , (2,5) , (1.5,3) , (0.5,1.5) , (3,1) , (4,1) , (5,1.5) , (6,2) , (7,1.5)
(7.5,1) , (8,0) , (7,-1.5) , (5,-2.5) , (4,-2.5) , (2.5,-3) , (2,-4) , (2,-6.5) , (2,-7.5) , (2,-8)
(2.5,-9.5) , (3.5,-11) , (4,-12) , (5,-13.5) , (5,-14.5) , (4.5,-15.5) , (2,-16) , (0.5,-14.5) , (-0.5,-13.5)
(-1.5,-12) , (-2.5,-9.5) , (-4,-12) , (-4.5,-13) , (-5,-14) , (-6,-15) , (-8,-16) , (-9.5,-15.5) , (-10.5,-14)
(-10,-13) , (-9,-11.5) , (-8.5,-11) , (-7.5,-9) , (-7,-8) , (-7,-7) , (-7,-6) , (-6.5,-4) , (-7,-3)
(-9.5,-2.5) , (-10.5,-2) , (-11.5,-1.5) , (-13,0) , (-12.5,1) , (-12,2) , (-10,2) , (-9,1.5)
(-8,1.5) , (-7,1.5) , (-6,2) , (-7,4) , (-7,6) , (-6,8) , (-5,9) , (-2.5,9.5) , (0,9)

Shape 2
(-4.5,1.5) , (-3,1) , (-3,0) , (-4.5,-0.5) , (-4.5,1.5)

Shape 3
(-3,1) , (-2,1) , (-2,0) , (-3,0)

Shape 4
(-2,1) , (-1,1.5) , (-0.5,0) , (-1,-0.5) , (-2,0)

Shape 5
(-4,4) , (-4,3.5) , (-3,3) , (-2,3) , (-1.5,3.5) , (-1,4) , (-0.5,4) , (-1,3)
(-2,2.5) , (-3,2.5) , (-4,3) , (-4.5,3.5) , (-4.5,4) , (-4,4)

Shape 6
(-7,-7) , (-6,-6.5) , (-5,-7) , (-4,-6.5) , (-3,-7) , (-2,-6.5) , (-1,-7) , (0,-6.5) , (1,-7) , (2,-6.5)

Shape 7
(-7,-8) , (-6,-7.5) , (-5,-8) , (-4,-7.5) , (-3,-8) , (-2,-7.5) , (-1,-8) , (0,-7.5) , (1,-8) , (2,-7.5)

Shape 8
(-2.5,-1.5) , (-3,-2) , (-2.5,-2.5) , (-2,-2) , (-2.5,-1.5)

Shape 9
(-2.5,-4.5) , (-3,-5) , (-2.5,-5.5) , (-2,-5) , (-2.5,-4.5)

Shape 10
(-8.5,-11) , (-6.5,-12.5) , (-4.5,-13)

Shape 11
(-9,-11.5) , (-6.5,-13.5) , (-5,-14)

Shape 12
(-0.5,-13.5) , (2,-12.5) , (3.5,-11)

Shape 13
(0.5,-14.5) , (2,-13.5) , (4,-12)

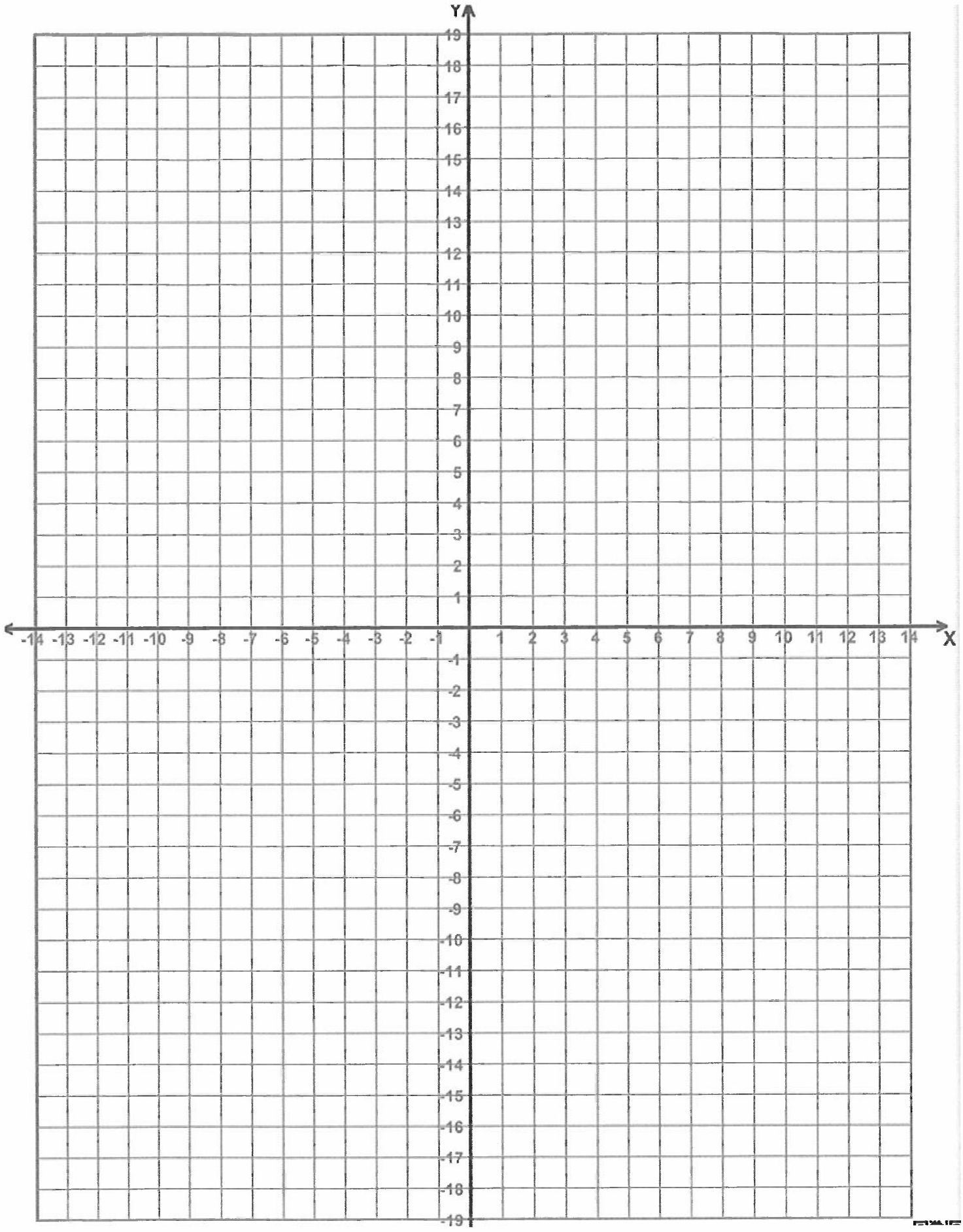
Shape 14
(-10.5,-2) , (-9.5,0) , (-9,1.5)

Shape 15
(-9.5,-2.5) , (-8.5,-0.5) , (-8,1.5)

Shape 16
(3,1) , (3.5,-0.5) , (4,-2.5)

Shape 17
(4,1) , (4.5,-0.5) , (5,-2.5)

Draw a .5 radius circle around these points.
(-4.5,5.5) and (-0.5,5.5)


Y
X
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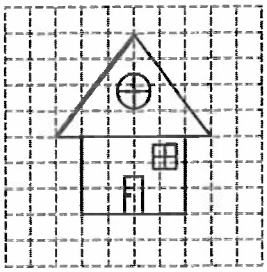
-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
1 2 3 4 5 6 7 8 9 10 11 12 13 14

Slope

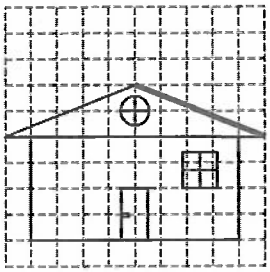
Find the slope of the **bold** side of the roof. Include the positive or negative sign as needed.

1)



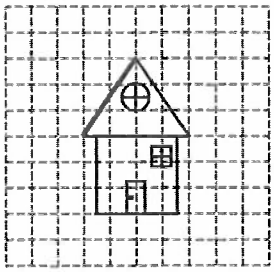
Slope = _____

2)



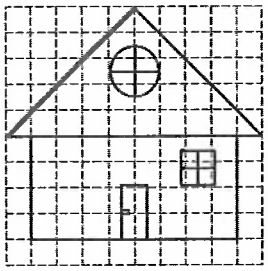
Slope = _____

3)



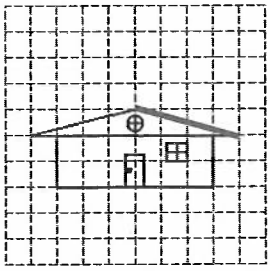
Slope = _____

4)



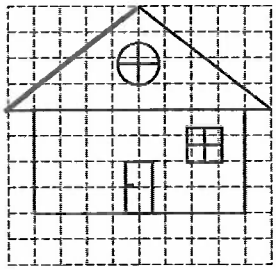
Slope = _____

5)



Slope = _____

6)



Slope = _____

Example:

Find the slope of a line passing through the points (–6, 1) and (–4, –5).

$$\text{Slope} = m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{-5-1}{-4+6} = \frac{-6}{2} = -3$$

Use two-point formula method to find the slope of a line passing through the given points.

1) (–9, –6) and (–2, –8)

Slope = _____

2) (–6, 2) and (3, 1)

Slope = _____

3) (2, 3) and (–8, 0)

Slope = _____

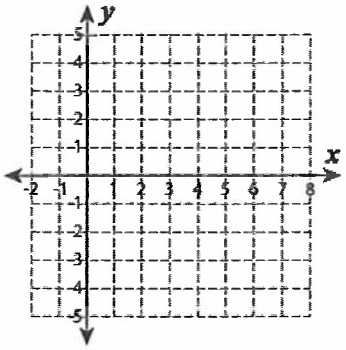
4) (3, 4) and (5, 6)

Slope = _____

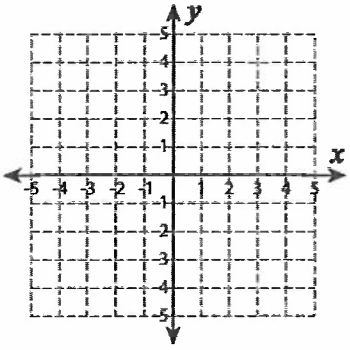
Slope Intercept Form

Write the equation in Slope Intercept Form (y = mx + b) AND graph the line.

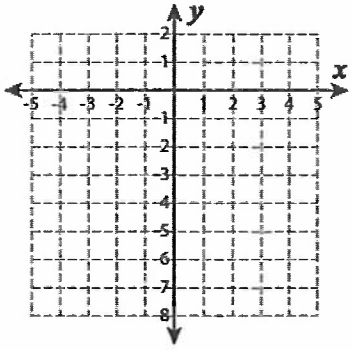
1) Slope = $\frac{3}{5}$; y-intercept = 1



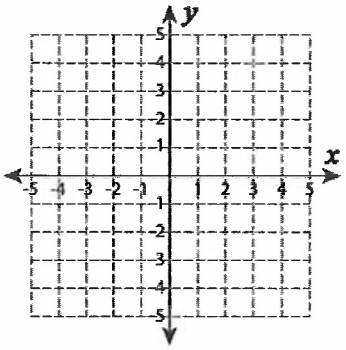
2) Slope = 7 ; y-intercept = –3



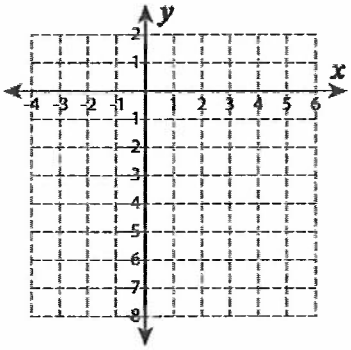
3) Slope = –4 ; y-intercept = –2



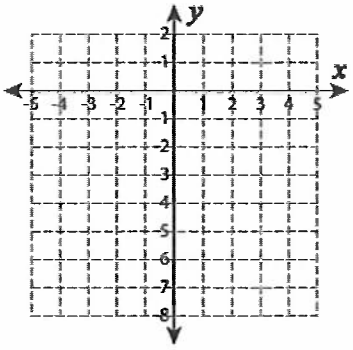
4) Slope = –5 ; y-intercept = 4



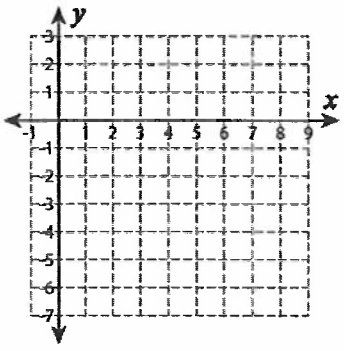
5) Slope = $-\frac{6}{5}$; y-intercept = –1



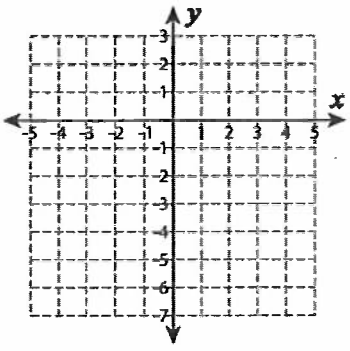
6) Slope = 3 ; y-intercept = –7



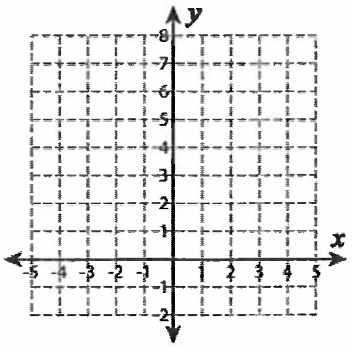
7) Slope = $\frac{7}{8}$; y-intercept = –6



8) Slope = $-\frac{8}{3}$; y-intercept = 2



9) Slope = 2 ; y-intercept = 5



Our Lady of the Holy Rosary – St. Richard Catholic School

Summer English Assignment

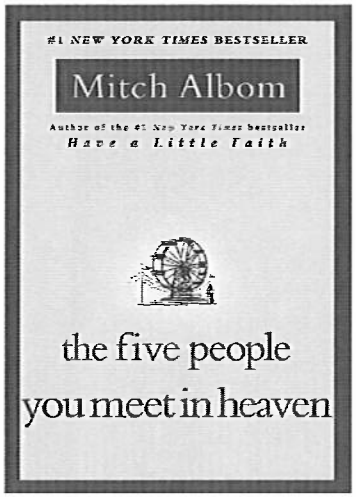
8th Grade (The Class of 2025)

Mr. G.

For your summer English assignment, you will be required to complete **both** activities listed and described below. Be sure to read over these instructions **thoroughly** to properly complete each component:

1) Reading & Writing: *The Five People You Meet in Heaven* by Mitch Albom & Reflective Report

READING: For your reading component, you will be required to purchase and read ***The Five People You Meet in Heaven*** **by Mitch Albom**. Information on the book is listed below:



The Five People You Meet In Heaven (Mitch Albom)
ISBN: 9781401308582

The novel, as you will see while reading, is divided into "stage" chapters: "The __th Person Eddie Meets in Heaven," and "The __th Lesson." Each of the five people Eddie (the protagonist) meets in Heaven has something important about life to teach him. It is the morals and values conveyed in those chapters, especially, that speaks volumes to the reader about life and living.

WRITING: For your writing component, you will **type and print a one-page reflection for each "stage" (Person and Lesson) that Eddie encounters in Heaven.** Your reflection, written in first-person point-of-view, should include what you personally learned through that particular section of the reading and what it meant to you. Also include **at least two significant quotes** from any chapters within that stage that stood out to you. Finally, be sure to also **include a Bible verse** that correlates with the lesson taught from that person in Heaven.

Formatting Guidelines: Size 12 font, Times New Roman, double-spaced, and one-inch margins around the page. *Please only print in black ink.*

Include a separate title page at the front of your reflective report for a total of **six pages.**

2) Test Prep Cards

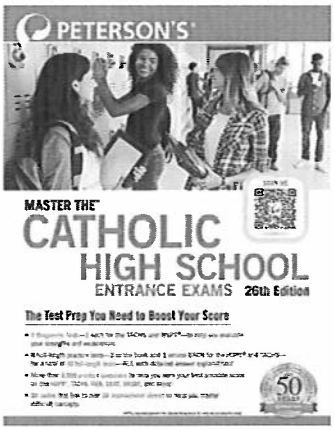
Considering most of you will be applying to and testing at a high school that requires completion of an entrance exam, you will be required to complete the tasks listed below as part of

your summer assignment as well. ***Note: <u>ALL</u> incoming eighth-grade students must complete this task, even if they know they will not be testing for high school admission. The skills tested in these materials will greatly help any student regardless of where they're applying for 9th grade.***

a. <u>Vocabulary Cards</u>: Create **two stacks of index cards** (distinguished either by the card color or the color of ink used) for <u>ALL</u> of the roots on the two separate attachments: Greek Roots, and Latin Roots. You should have **one stack** for Greek Roots, and **one stack** for Latin Roots. On one side of the card (preferably the blank side), you will write the root. On the other side, you will include the definition and **both** examples from the handout. You will also need to provide the **definition** for **one** of the examples.

b. <u>HSPT Practice Exam</u>: Complete the attached HSPT Practice Exam. As noted in the packet before the test, time/speed should not be your priority focus for your first practice test. Focus on accuracy and learning the types of questions that will be asked. Use the attached answer sheet to bubble in your answers. **If you wish to receive a second Practice Exam to test your speed, and/or the answers to either practice assessment, please email Mr. G.**

c. (**<u>OPTIONAL</u>**) <u>Peterson's *Master the™ Catholic High Schools Entrance Exams*</u>: If you are serious about wanting to excel on the HSPT you will be taking in December, I **highly recommend** that you purchase Peterson's *Master the™ Catholic High Schools Entrance Exams*. From my experience with HSPT prep books, this is by far the most thorough guide I have worked with. Information on the book is included below:



Master the™ Catholic High Schools Entrance Exams (Peterson's)
ISBN: 9780768945867

Best of luck, class of 2025. I will miss you terribly. Reach out to me if and whenever needed for anything :-)
~ Mr. G

CHAPTER

4 Practice HSPT Exam 1

CHAPTER SUMMARY

This is the first of the two practice tests in this book based on the High School Placement Test (HSPT) used by many Catholic high schools as an admissions test. Use this practice exam to see how you would do if you were to take the exam today.

This practice exam is similar to the real High School Placement Test you will be taking. Like the real exam, it is divided into five parts, covering five general skill areas, subdivided and timed as shown on the next page.

▶ Part 1: Verbal Skills

1.	a	b	c	d
2.	a	b	c	d
3.	a	b	c	d
4.	a	b	c	d
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60.	a	b	c	d

▶ Part 2: Quantitative Skills

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63.	a	b	c	d
64.	a	b	c	d
65.	a	b	c	d
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108.	a	b	c	d
109.	a	b	c	d
110.	a	b	c	d
111.	a	b	c	d
112.	a	b	c	d

▶ Part 5: Language Skills

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293. ⓐ ⓑ ⓒ ⓓ
294. ⓐ ⓑ ⓒ ⓓ
295. ⓐ ⓑ ⓒ ⓓ
296. ⓐ ⓑ ⓒ ⓓ
297. ⓐ ⓑ ⓒ ⓓ
298. ⓐ ⓑ ⓒ ⓓ

▶ Part 1: Verbal Skills

Time: 16 minutes

1. Which word does NOT belong with the others?
- a. chimpanzee
- b. gorilla
- c. snake
- d. ape

2. Which word does NOT belong with the others?
- a. sincere
- b. honest
- c. genuine
- d. deceitful

3. Randy is taller than Wendell. Luis is taller than Randy. Wendell is taller than Luis. If the first two statements are true, the third is
- a. true.
- b. false.
- c. uncertain.
- d. repetitive.

4. Saturate most nearly means
- a. deprive.
- b. construe.
- c. soak.
- d. verify.

5. A cheerful person is
- a. industrious.
- b. ebullient.
- c. tired.
- d. shy.

6. Cup is to coffee as bowl is to
- a. dish.
- b. soup.
- c. spoon.
- d. food.

7. Marathon is to race as hibernation is to
- a. winter.
- b. bear.
- c. nap.
- d. sleep.

8. Which word does NOT belong with the others?
- a. hammer
- b. screwdriver
- c. saw
- d. pencil

9. Punctual means the opposite of
- a. random.
- b. smooth.
- c. intermittent.
- d. tardy.

10. Communication is to telephone as transportation is to
- a. aviation.
- b. travel.
- c. information.
- d. bus.

11. Tactful is to diplomatic as bashful is to
- a. timid.
- b. confident.
- c. uncomfortable.
- d. bold.

12. Impassive most nearly means
- a. active.
- b. apathetic.
- c. blatant.
- d. abundant.

13. A vast prairie is
- a. empty.
- b. immense.
- c. steady.
- d. slight.

26. Which word does NOT belong with the others?
- a. book
- b. index
- c. glossary
- d. chapter

27. Amateur means the opposite of
- a. reality.
- b. professional.
- c. corrupt.
- d. precise.

28. Liberate means the opposite of
- a. conserve.
- b. restrain.
- c. attack.
- d. ruin.

29. Which word does NOT belong with the others?
- a. noun
- b. preposition
- c. punctuation
- d. adverb

30. If a person is called a sage, he or she is
- a. wise.
- b. obnoxious.
- c. conceited.
- d. heartless.

31. Unite most nearly means
- a. engineer.
- b. enhance.
- c. sunder.
- d. amalgamate.

32. Play is to actor as concert is to
- a. symphony.
- b. musician.
- c. piano.
- d. percussion.

33. All spotted Gangles have long tails. Short-haired Gangles always have short tails. Long-tailed Gangles never have short hair. If the first two statements are true, the third statement is
- a. true.
- b. false.
- c. uncertain.
- d. repetitive.

34. Requirement means the opposite of
- a. plan.
- b. consequence.
- c. option.
- d. accident.

35. Pacify means the opposite of
- a. complicate.
- b. dismiss.
- c. excite.
- d. liberate.

36. Which word does NOT belong with the others?
- a. cornea
- b. retina
- c. pupil
- d. vision

37. The temperature on Monday was lower than on Tuesday. The temperature on Wednesday was lower than on Tuesday. The temperature on Monday was higher than on Wednesday. If the first two statements are true, the third statement is
- a. true.
- b. false.
- c. uncertain.
- d. repetitive.

38. Validate most nearly means
- a. confirm.
- b. retrieve.
- c. communicate.
- d. appoint.

51. Humidify most nearly means
a. moisten.
b. warm.
c. gather.
d. spray.

52. Which word does NOT belong with the others?
a. sunshine.
b. rain.
c. umbrella.
d. snow.

53. Which word does NOT belong with the others?
a. sleeve
b. pocket
c. collar
d. shirt

54. Which word does NOT belong with the others?
a. dodge
b. flee
c. duck
d. avoid

55. Girl Scout Troop 101 sells more cookies than Troop 102. Troop 103 sells fewer cookies than Troop 102. Troop 101 sold more cookies than Troop 103. If the first two statements are true, the third statement is
a. true.
b. false.
c. uncertain.
d. repetitive.

56. Andre jumps higher than Rodney. James jumps higher than Andre. Rodney jumps higher than James. If the first two statements are true, the third statement is
a. true.
b. false.
c. uncertain.
d. repetitive.

57. A plausible argument is
a. insufficient.
b. apologetic.
c. unusual.
d. believable.

58. Which word does NOT belong with the others?
a. heading
b. body
c. closing
d. letter

59. Which word does NOT belong with the others?
a. core
b. seeds
c. pulp
d. slice

60. Levitate means the opposite of
a. plod.
b. undulate.
c. whisper.
d. sink.

70. What number is 2 less than 3% of 200?

a. 1
b. 4
c. 22
d. 58

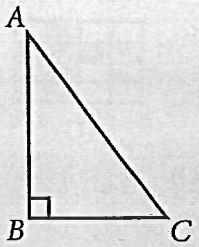
71. What number divided by 6 is $\frac{1}{2}$ of 18?

a. 9
b. 24
c. 36
d. 54

72. Look at this series: $1, \frac{7}{8}, \frac{3}{4}, \frac{5}{8}, \ldots$
What number should come next?

a. $\frac{2}{3}$
b. $\frac{1}{2}$
c. $\frac{3}{8}$
d. $\frac{1}{4}$

73. Examine the triangle and find the best answer.



a. *AB* is equal to *AC*.
b. *AB* is less than *AC*.
c. *BC* is greater than *AC*.
d. *AB* is equal to *BC*.

74. What is 12 more than 30% of 90?

a. 15
b. 39
c. 42
d. 52

75. Examine (A), (B), and (C) and find the best answer.

(A) $\frac{1}{2} \times \frac{1}{4}$
(B) $\frac{1}{8} \times \frac{1}{2}$
(C) $\frac{1}{4} \times \frac{1}{8}$

a. (A) is greater than (B) or (C).
b. (A) is greater than (B) but less than (C).
c. (C) is greater than (A) or (B).
d. (B) is greater than (C) or (A).

76. Look at this series: 8, 22, 12, 16, 22, 20, 24, . . .
What two numbers should come next?

a. 28, 32
b. 28, 22
c. 22, 28
d. 22, 26

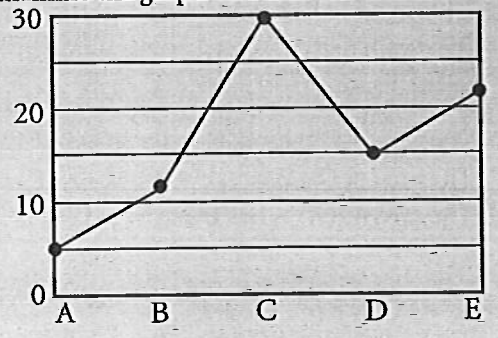
77. What number multiplied by 2 equals $\frac{1}{3}$ of 30?

a. 20
b. 15
c. 12
d. 5

78. Look at this series: XX, XVI, XII, VIII, . . .
What number should come next?

a. IV
b. V
c. VI
d. III

79. Examine the graph and find the best answer.



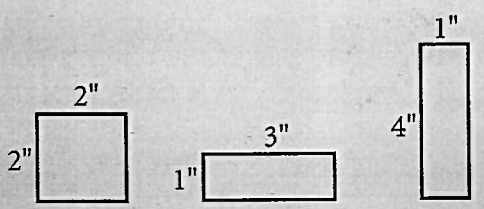
a. (B) is greater than (E).
b. (C) minus (A) is equal to (B).
c. (C) minus (E) is equal to (D).
d. (D) plus (E) is greater than (C).

89. Look at this series: 1.5, 2.3, 3.1, 3.9, . . .
What number should come next?
a. 4.2
b. 4.4
c. 4.7
d. 5.1

90. Look at this series: 29, 27, 28, 26, 27, 25, . . .
What number should come next?
a. 23
b. 24
c. 26
d. 27

91. Examine (A), (B), and (C) and find the best answer.
(A) 2^3
(B) 3^2
(C) 7
a. (A) is greater than (B) or (C).
b. (A) is less than (B) or (C).
c. (B) is greater than (A) or (C).
d. (A) and (B) are equal to (C).

92. Examine (A), (B), and (C) and find the best answer.



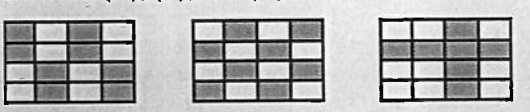
a. The area of (A) is equal to the area of (B).
b. The area of (A) is equal to the area of (C).
c. The area of (B) is equal to the area of (C).
d. The area of (A) is less than the area of (B).

93. What number added to 16 more than the same number equals 136?
a. 152
b. 120
c. 72
d. 60

94. Look at this series: 10, 34, 12, 31, __, 28, 16, . . .
What number should fill the blank?
a. 14
b. 18
c. 30
d. 34

95. What number times 8 less than 20% of 60 equals 24?
a. −6
b. 6
c. 18
d. 34

96. Examine (A), (B), and (C) and find the best answer.



a. (A) is more shaded than (C).
b. (A) and (C) are equally shaded.
c. (B) and (C) are equally shaded.
d. (B) is less shaded than (A).

97. What number is 5 less than 2 times the same number?
a. 3
b. 5
c. 10
d. 20

98. What number divided by 3 is $\frac{3}{5}$ of 50?
a. 150
b. 130
c. 90
d. 10

108. Three times what number plus 50 equals 74?

a. 8
b. 24
c. 41.3
d. 48

109. Look at this series: 14, 28, 20, 40, 32, 64, . . .
What number should come next?

a. 52
b. 56
c. 96
d. 128

110. Look at this series: 0.2, $\frac{1}{5}$, 0.4, $\frac{2}{5}$, 0.8, $\frac{4}{5}$, . . .
What number should come next?

a. $\frac{8}{10}$
b. $1\frac{3}{5}$
c. 1.6
d. 0.16

111. What number is 16 times $\frac{1}{2}$ of 10% of 40?

a. 3.2
b. 12
c. 28
d. 32

112. Examine (A), (B), and (C) and find the best answer.

(A) $\frac{9}{5}$
(B) 1.6
(C) $1\frac{3}{10}$

a. (B) is greater than (C) but less than (A).
b. (A) is less than (B).
c. (A) and (C) are equal to (B).
d. (B) minus (A) is equal to (C).

▶ Part 3: Reading

Time: 25 minutes

For questions 113 through 152, read each passage carefully. Answer the questions that follow ONLY on the basis of their preceding passage.

Greyhounds

Greyhound racing is the sixth most popular spectator sport in the United States. Over the last decade, a growing number of greyhounds have been adopted to live out their retirement as household pets, once their racing career is over.

Many people hesitate to adopt a retired racing greyhound because they think only very old dogs are available. Actually, even champion racers only work until they are about three-and-a-half years old. Since greyhounds usually live to between twelve and fifteen years old, their retirement is much longer than their racing careers.

People worry that a greyhound will be more nervous and active than other breeds and will need large space to run. These are false impressions. Greyhounds have naturally sweet, mild dispositions, and while they love to run, they are sprinters rather than distance runners. With a few laps around a fenced-in backyard everyday, they are sufficiently exercised.

Greyhounds do not make good watchdogs, but they are very good with children, get along well with other dogs (and usually cats as well), and are affectionate and loyal. They are intelligent, well-behaved dogs, usually housebroken in only a few days. A retired racing greyhound is a wonderful pet for almost anyone.

Ecosystems

An ecosystem is a group of animals and plants living in a specific region and interacting with one another and with their physical environment. Ecosystems include physical and chemical components, such as soils, water, and nutrients, that support the organisms living there. These organisms may range from large animals to microscopic bacteria.

Ecosystems also can be thought of as the interactions among all organisms in a given habitat; for instance, one species may serve as food for another. People are part of the ecosystems where they live and work. Human activities can harm or destroy local ecosystems unless actions such as land development for housing or businesses are carefully planned to conserve and sustain the ecology of the area. An important part of ecosystem management involves finding ways to protect and enhance economic and social well-being while protecting the physical environment.

123. The passage describes an ecosystem as
- a. a community of animals, plants, and bacteria that interact with one another.
- b. any human activity that can do great damage to the environment.
- c. microscopic bacteria that provide food for plants and animals.
- d. a system that provides economic and social protection for a group of people.

124. According to the passage, one way ecosystems can be destroyed is by
- a. tiny bacteria.
- b. plants and soils.
- c. land development.
- d. ecosystem management.

125. In the second paragraph, the author mainly argues in favor of
- a. protecting ecosystems.
- b. the building of more new homes.
- c. protecting local businesses.
- d. stopping all land development.

126. Based on the passage, which of the following is NOT an organism?
- a. a small animal
- b. water
- c. a plant
- d. microscopic bacteria

127. As it is underlined and used in the passage, the word components most nearly means
- a. pollutants.
- b. regions.
- c. interactions.
- d. elements.

128. The author uses the underlined term ecosystem management to mean
- a. planning carefully to protect the environment.
- b. controlling the number of animals in one area.
- c. the amount of soil, water, and nutrients in one ecosystem.
- d. the people who live and work in a region.

129. The statement "one species may serve as food for another" is an example of
- a. a habitat.
- b. social well-being.
- c. an interaction.
- d. a chemical component.

136. Another word for devotion, as underlined and used in the passage, is
a. actions.
b. prayer.
c. enthusiasm.
d. worship.

137. Which is NOT mentioned as a goal of today's Olympics?
a. world cooperation
b. athletic excellence
c. international understanding
d. winning awards

138. How many years is an "Olympiad"?
a. two
b. four
c. six
d. one

139. In the original Olympics, Greek women were not allowed to participate or watch. They responded by
a. watching from afar.
b. winning prizes.
c. conducting their own games.
d. staying home.

140. The author's purpose in writing this selection was most likely to
a. encourage readers to train for the Olympics.
b. show how the Olympics are different for men and women.
c. describe how the Olympics came to be.
d. share the goals of the Olympics.

141. In the early days of the Olympics, male champions
a. won all the awards.
b. were the strongest in the country.
c. stayed away from the female champions.
d. were awarded valuable gifts.

142. The third paragraph describes
a. how the modern-day Olympics came to exist.
b. the goals of ancient Greece's Olympics.
c. what the winners of the Olympics receive.
d. why athletic excellence is important.

Genius

The word *genius* conjures up many definitions. It is looked upon by some as supernatural, something that an ordinary human being could not achieve. Others might describe a genius as eccentric or abnormal, but in a good way. As examples of genius, one only has to look at Mozart or Einstein. After all, Mozart's symphonies and Einstein's theory of relativity are outstanding but unusual human accomplishments. It is also thought that genius is a completely unpredictable abnormality.

Until recently, psychologists regarded the quirks of genius as too inconsistent to describe intelligibly. However, a groundbreaking study by Anna Findley has uncovered predictable patterns in the biographies of geniuses. These patterns, however, do not dispel the common belief that there is a kind of supernatural intervention in the lives of unusually talented men and women, even though these patterns occur with regularity. For example, Findley's study shows that all geniuses experience three intensely productive periods in their lives. One of these periods always occurs shortly before the genius's death; this is true whether the genius lives to nineteen or ninety.

143. According to the information presented in the passage, which of the following best sums up the general populace's opinion of genius?
a. It is predictable and uncommon.
b. It is scornful and abnormal.
c. It is unpredictable and erratic.
d. It is extraordinary and erratic.

154. to lie prostrate
- a. strongly
- b. glandular
- c. helpless
- d. vigorously

155. to defraud investors
- a. announce
- b. defray
- c. defy
- d. cheat

156. a malevolent wish
- a. evil
- b. ill-formed
- c. grand
- d. perfect

157. the governor's oration
- a. election
- b. independence
- c. speech
- d. candidacy

158. the eccentric old man
- a. frail
- b. stingy
- c. peculiar
- d. elective

159. to commence the meeting
- a. begin
- b. leave
- c. disclose
- d. terminate

160. a rational decision
- a. deliberate
- b. invalid
- c. prompt
- d. reasonable

161. expedite the process
- a. accelerate
- b. evaluate
- c. reverse
- d. justify

162. the obsolete machine
- a. complicated
- b. simple
- c. unnecessary
- d. outmoded

163. accountable for his or her behavior
- a. applauded
- b. compensated
- c. responsible
- d. criticized

164. his or her speech filled with hyperbole
- a. sincerity
- b. exaggeration
- c. understatement
- d. anger

165. its inferior quality
- a. absurd
- b. distinguished
- c. lower
- d. personal

166. the proponent of new laws
- a. advocate
- b. delinquent
- c. idealist
- d. critic

167. your disparaging remark
- a. encouraging
- b. final
- c. restricting
- d. belittling

180. 184 is evenly divisible by
a. 46.
b. 43.
c. 41.
d. 40.

181. Write ten million forty-three thousand seven hundred and three in numerals.
a. 143,703
b. 1,043,703
c. 10,043,703
d. 10,430,703

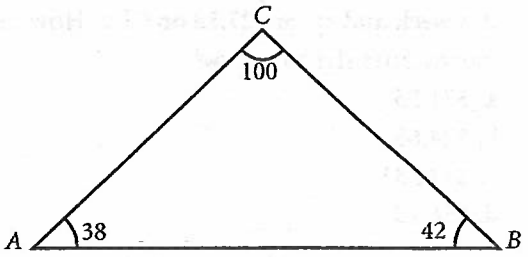
182. A polygon is a plane figure composed of connected lines. How many connected lines must there be to make a polygon?
a. 3 or more
b. 4 or more
c. 5 or more
d. 6 or more

183. $(-12)^2 =$
a. 144
b. -144
c. -24
d. 24

184. The greatest common factor of 8 and 24 is
a. 2.
b. 4.
c. 6.
d. 8.

185. Betty's horse, Spike, can run 3 times faster than Juan's horse, Muffin. The best simplification of this problem would be written
a. $M \div 3 = 2$.
b. $S = M - 3$.
c. $M = S + 3$.
d. $S = M \times 3$.

186. Which is the longest side? (Note: not drawn to scale.)



a. AB
b. AC
c. BC
d. AC and BC

187. If $n = 3$, which of the following statements is true?
a. $9 - n > 6$
b. $3n < 8$
c. $2n > n^2$
d. $3n < n^3$

188. What is the reciprocal of $3\frac{7}{8}$?
a. $\frac{31}{8}$
b. $\frac{8}{31}$
c. $\frac{8}{21}$
d. $-\frac{31}{8}$

189. What is the ratio of one inch to one foot?
a. 1:1
b. 1:3
c. 1:12
d. 1:36

190. What is the best way to simplify the following sentence to make it easier to work with? Rachel had three apples and ate one.
a. $R = 3 - 1$
b. $3 - 2 = R$
c. $R = 4$
d. $3R - 2$

201. Last week, Felicity had $67.98 saved from baby-sitting. She made another $15.75 baby-sitting this week and spent $27.58 on CDs. How much money does she have now?

a. $71.55
b. $24.65
c. $111.31
d. $56.15

202. If it takes Danielle 22.4 minutes to walk 1.25 miles, how many minutes will it take her to walk one mile?

a. 17.92
b. 18
c. 19.9
d. 21.15

203. Four hundred pounds of cod are shipped to Jerry's Fish Market packed into 20-pound crates. How many crates are needed for the shipment?

a. 80 crates
b. 40 crates
c. 20 crates
d. 10 crates

204. 3 hours 20 minutes − 1 hour 48 minutes =

a. 5 hours 8 minutes.
b. 4 hours 8 minutes.
c. 2 hours 28 minutes.
d. 1 hour 32 minutes.

205. $(2 + 4) \times 8 =$

a. 84
b. 64
c. 48
d. 32

206. $\frac{7}{8} \times \frac{1}{4} =$

a. $4\frac{1}{2}$
b. $\frac{7}{32}$
c. $3\frac{1}{8}$
d. $\frac{2}{7}$

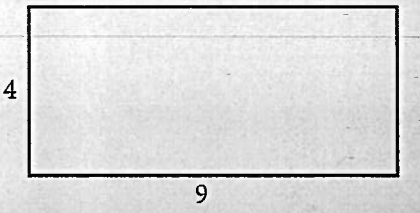
207. $3.6 - 1.89 =$

a. 1.47
b. 1.53
c. 1.71
d. 2.42

208. 60% of 390 =

a. 234
b. 190
c. 180
d. 134

209. What is the perimeter of the rectangle below?



a. 13
b. 22
c. 26
d. 36

210. Reva earns $10 an hour for walking the neighbor's dog. Today, she can only walk the dog for 45 minutes. How much will Reva make today?

a. $6.25
b. $7.50
c. $7.75
d. $8.00

220. Edward purchased a house for $70,000. Five years later, he sold it for an 18% profit. What was his selling price?

a. $82,600
b. $83,600
c. $85,500
d. $88,000

221. The price of gasoline drops from $1.00 per gallon to 95¢ per gallon. What is the percent of decrease?

a. 2%
b. 3%
c. 4%
d. 5%

222. Meda arrived at work at 8:14 A.M. and Kirstin arrived at 9:12 A.M. How long had Meda been at work when Kirstin got there?

a. 1 hour 8 minutes
b. 1 hour 2 minutes
c. 58 minutes
d. 30 minutes

223. $4.5 \div 2.5 =$

a. 20.0
b. 2.0
c. 1.8
d. 0.2

224. Twelve less than 4 times a number is 20. What is the number?

a. 2
b. 4
c. 6
d. 8

225. Carmella and Mariah got summer jobs at the Dairy Queen and were supposed to work 15 hours per week each for eight weeks. During that time, Mariah was ill for one week and Carmella took her shifts. How many hours did Carmella work during the eight weeks?

a. 120 hours
b. 135 hours
c. 150 hours
d. 185 hours

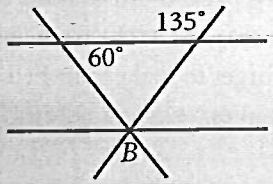
226. $x = 12 + y^2(10 - 8)$

$y = 2$

$x = ?$

a. 14
b. 20
c. 46
d. 120

227. What is the measure of angle B in the diagram below?



a. 45 degrees
b. 60 degrees
c. 75 degrees
d. 130 degrees

228. If a population of yeast cells grows from 10 to 320 in a period of five hours, what is the rate of growth?

a. It doubles its numbers every hour.
b. It triples its numbers every hour.
c. It doubles its numbers every two hours.
d. It triples its numbers every two hours.

▶ Part 5: Language Skills

Time: 25 minutes

For questions 239 through 278, find the sentence that has a mistake in capitalization, punctuation, or usage. If you find no mistakes, mark choice **d**.

239. a. My least favorite season is Winter.
b. Next Tuesday, Uncle Joe will come to my house.
c. Suzanne was elected president of the senior class.
d. No mistakes.

240. a. My family is relocating to Iowa.
b. "Is this my seat?" she asked.
c. The girls' listened to the same music.
d. No mistakes.

241. a. Sunshine peeked through the clouds.
b. The car stopped at the traffic light.
c. Don't forget to make your bed.
d. No mistakes.

242. a. No, it's false.
b. The temperature fell, and the pond frozen.
c. My father is a store manager.
d. No mistakes.

243. a. She asked me, to show her how to make an apple pie.
b. He shouted from the window, but we couldn't hear him.
c. Occasionally, someone will stop and ask for directions.
d. No mistakes.

244. a. Of the four of us, I am the tallest.
b. Wilson's brother is a chemical engineer.
c. That fine circus elephant now belongs to my sister and I.
d. No mistakes.

245. a. His family has lived in this town for 35 years.
b. You're the only one who can remember that song.
c. That's the quickest way to get to Sylvia's house.
d. No mistakes.

246. a. We searched every inch of the room.
b. The words in this document does not make sense.
c. We always have chicken for Sunday dinner.
d. No mistakes.

247. a. Science and math are my two best subjects.
b. We met senator Moynihan at a conference last June.
c. Did you see the movie *Babe?*
d. No mistakes.

248. a. Kamala was the most intelligent person in the group.
b. The Eiffel Tower is in Paris, France.
c. Nick Carraway is a character in *The Great Gatsby.*
d. No mistakes.

249. a. Either Cassie nor I heard the door open.
b. How many people signed the Declaration of Independence?
c. Draw up a plan before you make your decision.
d. No mistakes.

265. a. Make sure your seatbelt is fastened.
b. I'm afraid of spiders George is too.
c. Yes, I will bring the dessert.
d. No mistakes.

266. a. Don't stand in my way.
b. Cecilia and I fought our way through the crowd.
c. The vegetables were old rubbery and tasteless.
d. No mistakes.

267. a. After you left, I took the dog for a walk.
b. For the first time, I understood what he was talking about.
c. We visited the house where George Washington lived last fall.
d. No mistakes.

268. a. Sandra Day O'Connor was the first woman to serve on the U.S. Supreme Court.
b. The judge met with both attorneys in his chambers.
c. Which of the Beatles' songs do you like best?
d. No mistakes.

269. a. The steam rose up from the hot pavement.
b. She put the kitten down carefully beside its mom.
c. Neither of us is going to the party.
d. No mistakes.

270. a. Here are four different varieties of the same species.
b. The oldest one of these books are not for sale.
c. This is the most exciting vacation I have ever had.
d. No mistakes.

271. a. Remember to walk the dog.
b. "Don't run"! Mr. Ellington shouted.
c. It's supposed to snow today and tomorrow.
d. No mistakes.

272. a. When I go to the mall, I took Harrison with me.
b. There are two buildings on this property.
c. I was invited, but I declined the invitation.
d. No mistakes.

273. a. Charleen's parents worried whenever she drove the car.
b. Who designed the Brooklyn Bridge?
c. Diseases like Smallpox and Polio have been eradicated.
d. No mistakes.

274. a. They traveled south and hiked in the desert.
b. "Don't shout at me," she yelled back.
c. Joshua enters lots of contests, until he knows he can't win.
d. No mistakes.

275. a. The students' backpacks were all put away.
b. Do you want to go to Yellowstone National Park?
c. Keep off the grass!
d. No mistakes.

276. a. I love Italian food.
b. The people in the office, including all the assistants.
c. George likes to play basketball better than football.
d. No mistakes.

277. a. Who's that person in the red hat?
b. The letter arrived addressed to Emily and me.
c. After running, it's important to stretch.
d. No mistakes.

278. a. When I heard the siren, I run to the door.
b. Ms. Smith is the treasurer of the bank.
c. In the morning, I woke up.
d. No mistakes.

290. Choose the word that best joins the thoughts.
The policeman thought he had caught the thief; ___ he had an innocent person in custody.
a. finally
b. unless
c. thus
d. instead

291. Which of these expresses the idea most clearly?
a. Martin phoned his friend every day when he was in the hospital.
b. When his friend was in the hospital, Martin phoned him every day.
c. When in the hospital, a phone call was made every day by Martin to his friend.
d. His friend received a phone call from Martin every day while he was in the hospital.

292. Which of these expresses the idea most clearly?
a. Some of the reports I have to type for school are very long, but that doesn't bother one if they are interesting.
b. Some of the reports I have to type for school are very long, but that doesn't bother you if they are interesting.
c. Some of the reports I have to type for school are very long, but it doesn't bother a person if the reports are interesting.
d. Some of the reports I have to type for school are very long, but that doesn't bother me if they are interesting.

293. Which of these expresses the idea most clearly?
a. In search of the missing teenagers, who still had not been found through snake-ridden underbrush all day, the exhausted volunteers had struggled.
b. All day, the exhausted volunteers had struggled through snake-ridden underbrush in search of the missing teenagers, who still had not been found.
c. All day, the exhausted volunteers had struggled through snake-ridden underbrush who still had not been found, in searching for the missing teenagers.
d. The exhausted volunteers who still had not found in search of the missing teenagers when they had struggled through snake-ridden underbrush.

294. Choose the group of words that best completes this sentence.
As soon as she realized that the hurricane was going to strike, _____.
a. the mayor told the residents to evacuate the city.
b. the city residents were told to evacuate by the mayor.
c. the mayor tells the city residents of her decision to evacuate.
d. the residents of the city were told to evacuate by the mayor.

295. Which of the following topics is best for a one-page essay?
a. Why I Have a Vegetable Garden in My Backyard
b. How Pesticides Are Contributing to Various Diseases
c. Why Agribusiness Is Not Good for the U.S. Economy
d. Iowa, Nebraska, and Kansas: America's Bread Basket