



OUR LADY OF VICTORY SCHOOL

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6TH, 7TH & 8TH SUMMER READING ASSIGNMENT

INCOMING 6TH, 7TH & 8TH grade students have two books assigned to read during the summer. They may choose any two books from the attached *Jr. High Recommended Reading List*. Students are expected to complete a "Story Map" and "Book Critique" on their first book and one of the following on their second book:

- **Book Report Cover:** Create an original book jacket for the book you read. You must include a brief summary of the book (in your own words), a picture that represents a scene or them of the book, a list of characters (minimum three) with their important traits, and a quote from the book (one you think is interesting or is something that tells about the book in some way). Note: A book jacket is like a new cover for the book. All work should be original and not just a copy of the cover. *Be creative, follow all directions, and have fun!*
- **Book Report Collage:** On your own paper or poster, assemble a collection of ten or more pictures that relate significantly to this book. These pictures may be drawn, cut from magazines, computer generated, etc. Arrange your pictures in an interesting manner, creating a collage. In addition, attach a separate piece of paper listing each picture and tell why they are important to the story. Write a short, personal response to the book you read. Your response should include why you chose to read this book, if you liked/disliked this book, would you recommend this book to someone to read, why or why not.
- **Written Book Report:** Attaches is a "Storyboard" to help in completing a written book report. The graphic organizer is used to sequence and summarize the main points of the story. If you choose to complete the written book report, you may use this template or work on separate paper. The report maybe hand written or typed. *Paragraph structure, grammar, and spelling count!*

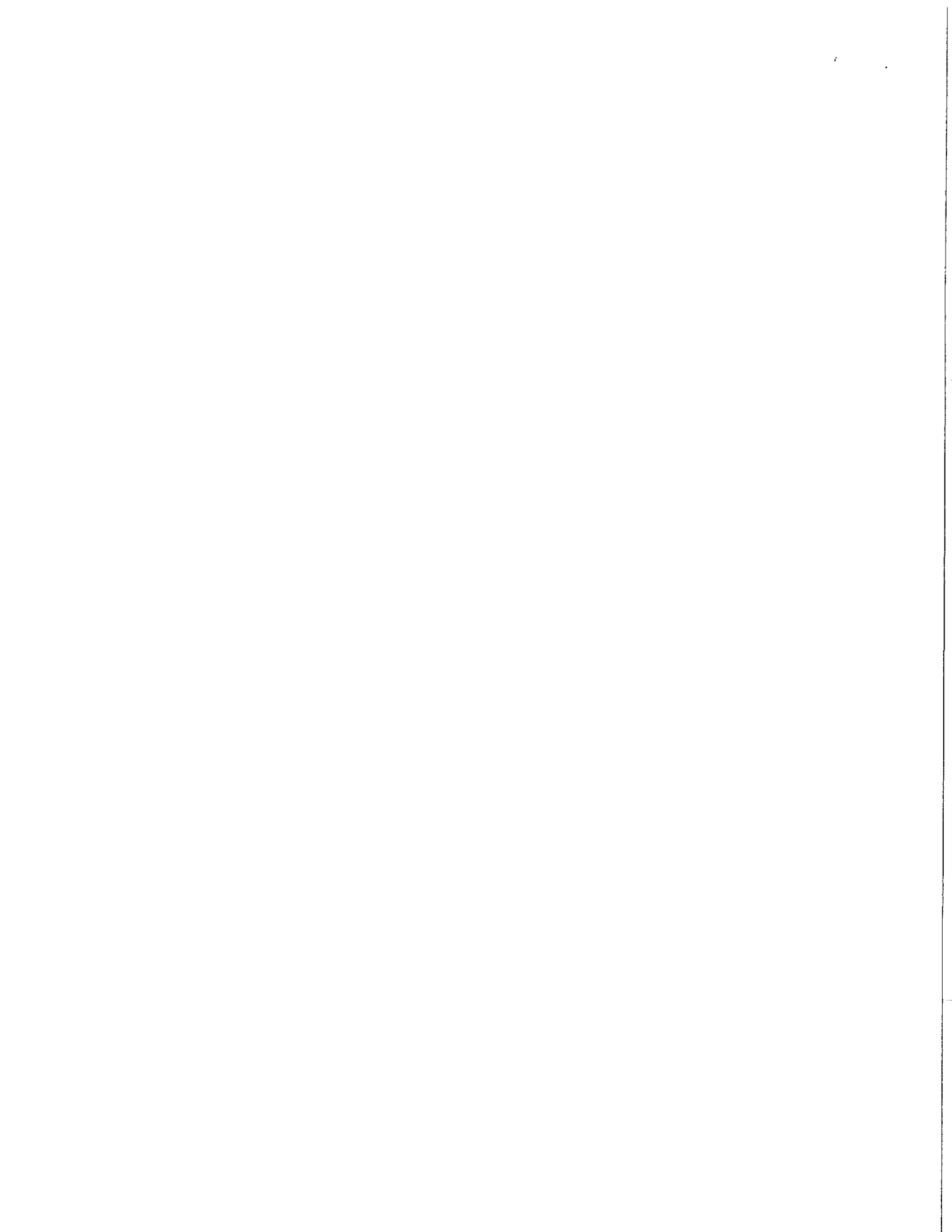
You only have to complete one of the above items for your second book!

In summary, you will be reading two separate books, of your choice, from the recommended reading list (attached). For the first book, complete the "Story Map" and "Book Critique." For the second book, choose one of the three bulleted items above. **Both assignments are due the first week school resumes!**

Reading is an integral part of your child's education and development. I encourage you to have your child read a minimum of 30 minutes a day. This promotes reading comprehension and vocabulary development. Students may read the newspaper, magazines, short stories, and any type of books. The public library is open during the summer – books do not need to be purchased.

If you have any questions regarding the summer reading assignment, please contact me at Bouchard@fresnoolv.org or the office during their summer hours. Have a great summer!

God Bless,
Mrs. Bouchard



JUNIOR HIGH SCHOOL SUGGESTED READING

Alcott, L.M	Little Men
	Little Women
Armstrong, W.	Sounder
Buck, Pearl S.	The Big Wave
Byars, Betsy	The Summer of the Swans
	The House of Wings
Choi, Sook Nyul	Echoes of the White Giraffe
Couriander, Harold	Cowtail Switch
Dahl, Roald	Willy Wonka
DeAngell, Marguerite	Door in the Wall
Defoe, D.	Robinson Carusoe
DePaolo, Tomie	Series of Religious Stories
Dickens, Charles	Christmas Carol
Doherty, Paul	King Arthur
Doyle, Arthur C.	Adventures of Sherlock Holmes
Drucker, Olga	Kinder Transport
Forbes, Esther	Johnny Tremain
Frank, Anne	Diary of a Young Girl
George, Jean	Julie of the Wolves
	My Side of the Mountain
Gipson, Fred	Old Yeller
Grahame, K.	The Wind in the Willows
Gunther, J.	Death Be Not Proud
Herriot, J.	All Creatures Great and Small
Hinton, S.E.	The Outsiders
	Tex
	That Was this, This Is Now
Holman, Selice	Slake's Limbo
Hunt, Irene	Across Five Aprils
Juster, Norton	The Phantom Tollbooth
James, L & Collier, Chris	My Brother Sam is Dead
Jarnow, Jill	One of the Boys
Kerr, Judith	When Hitler Stole Pink Rabbit
Keyes, Daniel	Flowers for Algernon
L'Engle, Madeleine	Wrinkle in Time
Lewis, C.S.	Chronicles of Narnia
London, Jack	The Call of the Wild
	The Sea Wolf
	White Fang
Lowry, Lois	The Giver
McCullers, C.	The Hear is a Lonely Hunter
Montgomery, L.M.	Anne of Green Gables
Meyers, Walter Dean	Outside Shot
Naylor, Phyllis	Shiloh

O'Dell, Scott	Island of the Blue Dolphins
	The Black Pearl
Rawlings, Marjorie Kinnan	The Yearling
Rawls, Wilson	Where the Red Fern Grows
Reiss, Johanna	The Upstairs Room
Schaefer, Jack	Shane
Seldon, George	Cricket in Time Square
Snyder, Zilpha	Libby on Wednesday
Sperry, Armstrong	Call it Courage
Stevenson, Robert Louis	Kidnapped
	Treasure Island
Taylor, Mildred	Roll of Thunder Hear my Cry
Thomas, Jane	Courage at Indian Deep
Twain, Mark	Huck Finn
	Tom Sawyer
Verne, J	Twenty Thousand Leagues Under the Sea
Voight, Cynthia	Building Blocks
	Dacey's Song
Wells, H.G.	The Time Machine
White, E.B.	Charlotte's Web
Wilder, T.	The Bridge of San Luis Rey
Zindel, P	The Pigman

Name: _____

Date: _____

Name of Book: _____

Author: _____

Story Map

Follow the people, places and events in the story.

Setting

Time

Place

Characters

Protagonist (the main character)

Antagonist (the person or force opposing the protagonist)

Conflict

Rising Action (list three events that build suspense)

1

2

3

Climax

Explain the climax. The climax is the moment before we know the answers to the questions the conflict has created. It is the peak of suspense.

Name:

Book Critique

1. What is your overall evaluation of this book?

____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

2. Why do you think we read this book?

3. How would you rate this book in the following areas?

Action ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

Originality ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

Interest ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

**Character
Development** ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

4. Elaborate on one topic in question 3. Why do you feel this way?

5. Describe how this book could be applied to your life. Describe a part of the book you identified with.

6. Detail the strengths/weaknesses of this book.
Strengths:

Weaknesses:



Storyboard

Name(s): _____

Date: _____

Period: _____



Storyboard panel 1: A large empty rectangular box with a small oval in the top right corner, intended for drawing a scene.

Storyboard panel 2: A large empty rectangular box with a small oval in the top right corner, intended for drawing a scene.

Storyboard panel 3: A large empty rectangular box with a small oval in the top right corner, intended for drawing a scene.

Storyboard panel 4: A large empty rectangular box with a small oval in the top right corner, intended for drawing a scene.

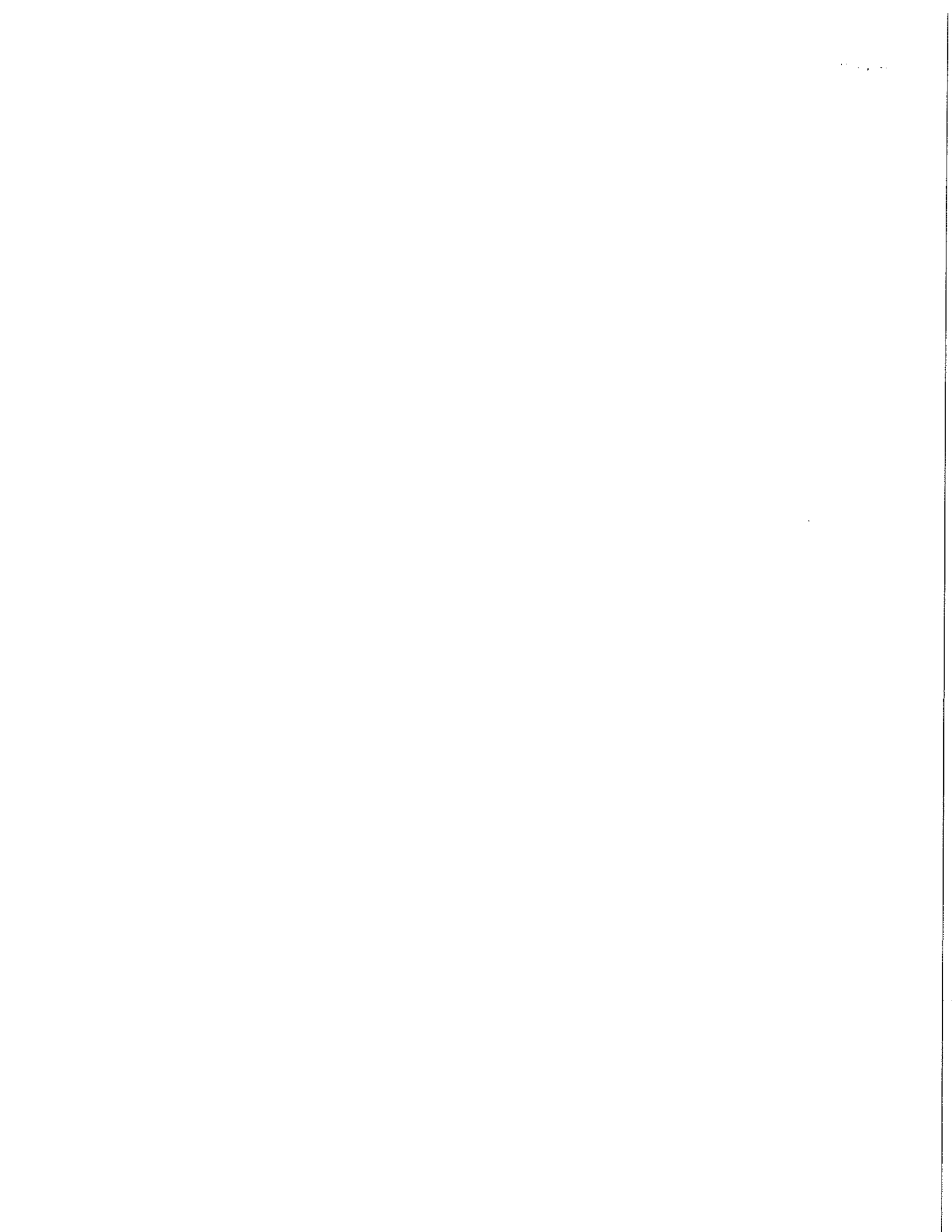
Storyboard panel 5: A large empty rectangular box with a small oval in the top right corner, intended for drawing a scene.

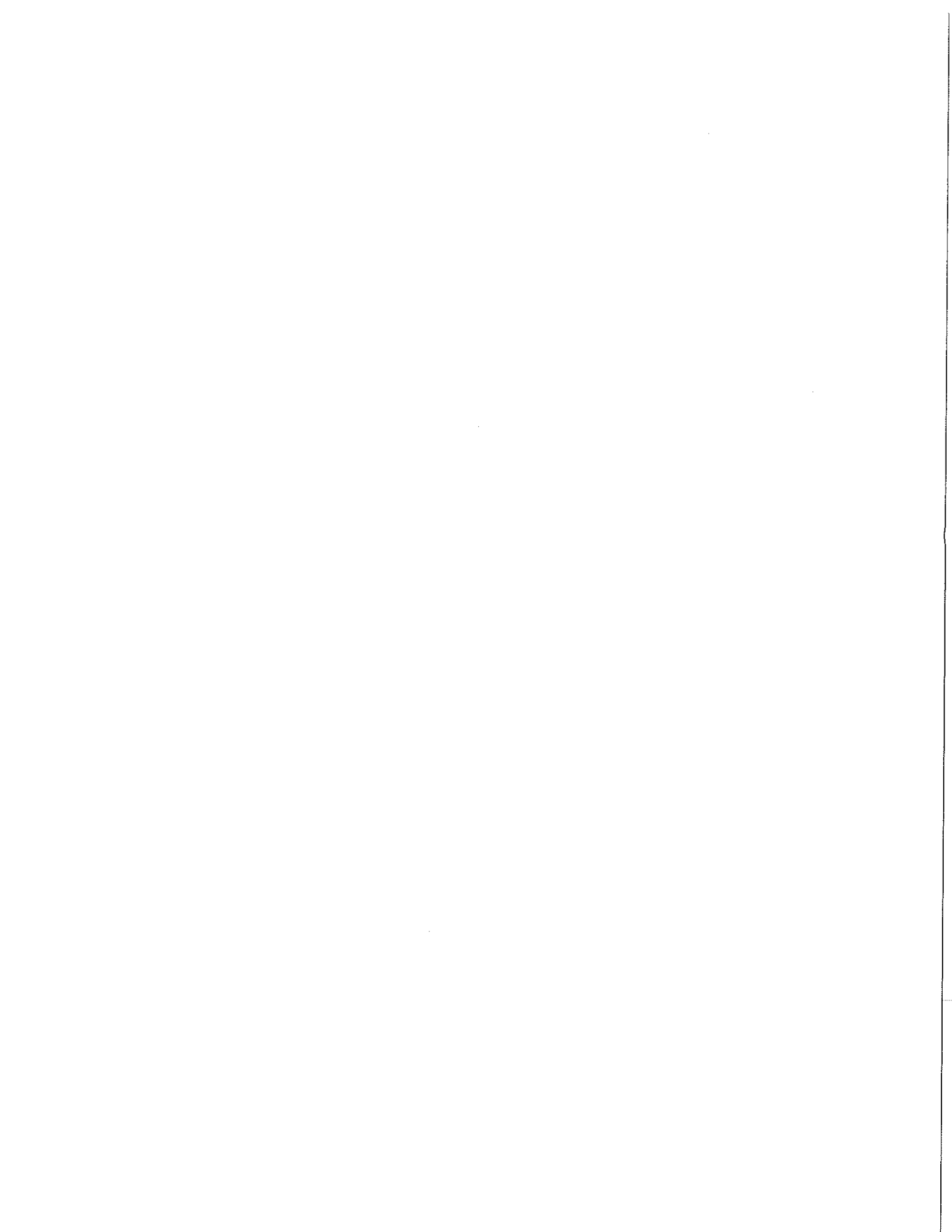
Storyboard panel 6: A large empty rectangular box with a small oval in the top right corner, intended for drawing a scene.

Storyboard panel 7: A set of five horizontal lines for writing a description of the scene.

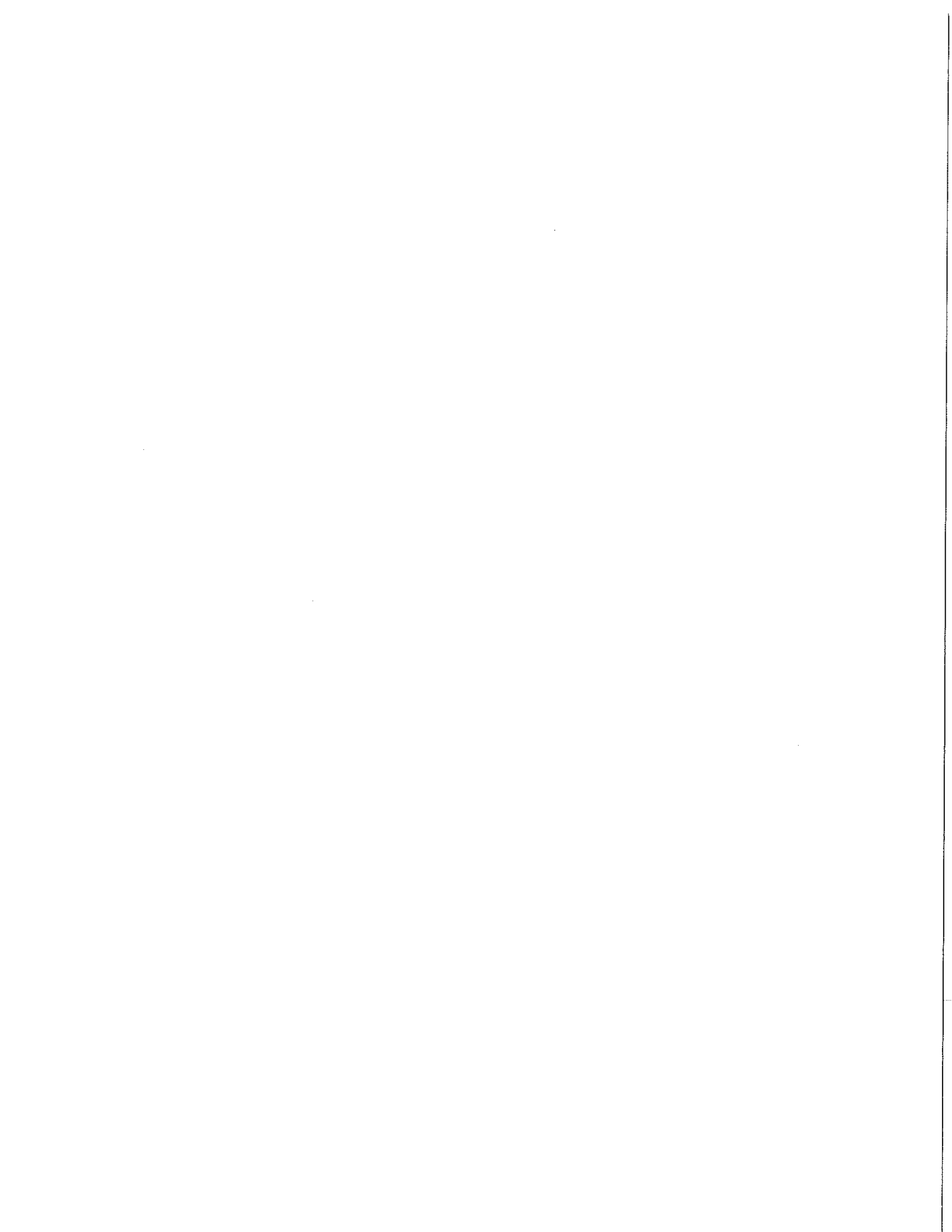
Storyboard panel 8: A set of five horizontal lines for writing a description of the scene.

Storyboard panel 9: A set of five horizontal lines for writing a description of the scene.

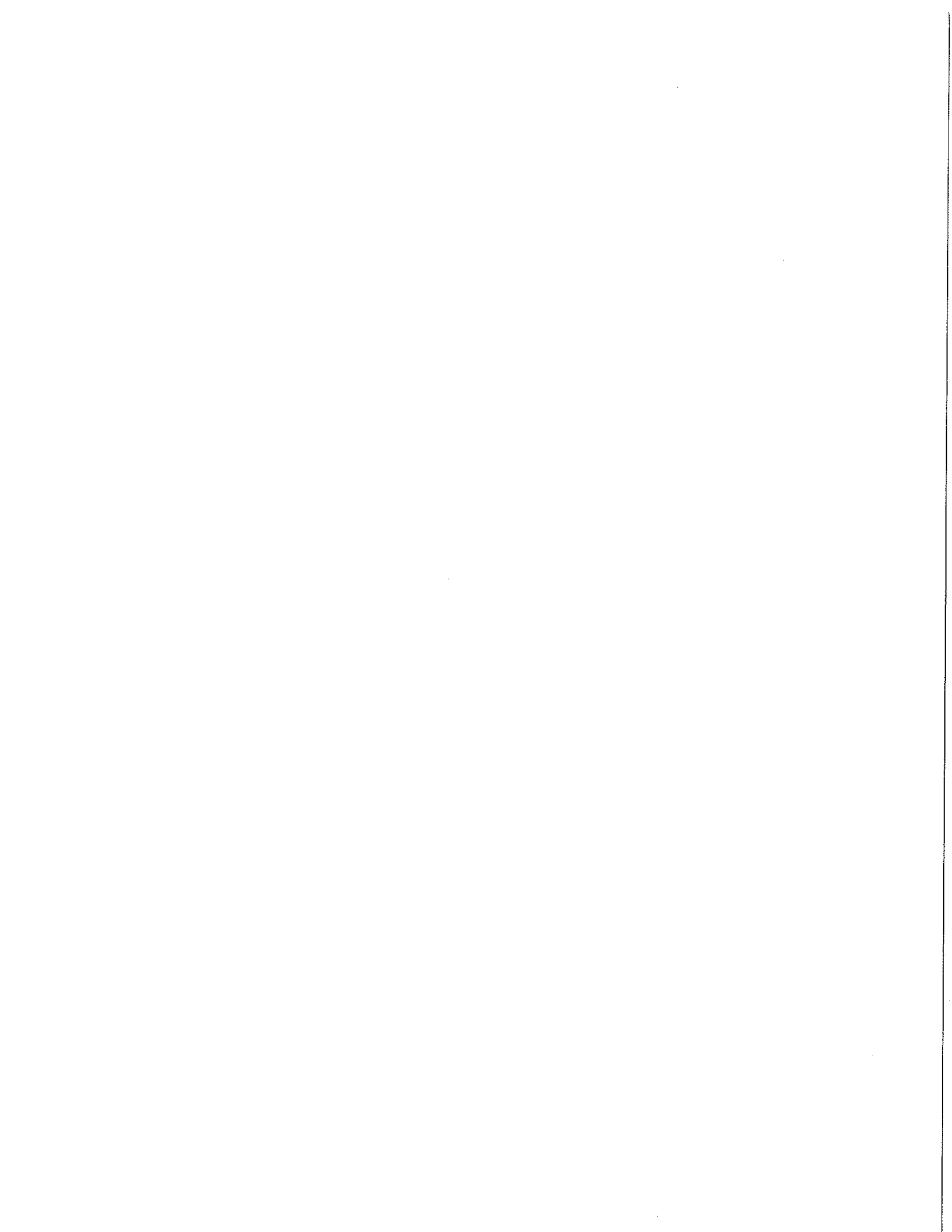




- _____ 12. Over a week, a movie theater has gains and losses of \$500, -\$385, -\$85, \$785, \$625, -\$99, and -\$18. What is the mean of the daily gains and losses for the seven days?
- a. \$189
b. \$221.50
c. \$356.71
d. \$416.17
- _____ 13. Which expression is equivalent to $8 + 6 - 16$?
- a. $8 + 16 - 18$
b. $16 - 8 + 6$
c. $8 - 16 + 6$
d. $8 - 6 + 16$
- _____ 14. What property is illustrated by the equation $(y + 7) + 3 = y + (7 + 3)$?
- a. commutative property of addition
b. commutative property of multiplication
c. associative property of addition
d. associative property of multiplication
- _____ 15. Which is an appropriate expression to model the area of a room that is 17 feet by 25 feet?
- a. $10(20 + 5) + 7(10 + 7)$
b. $20(10 + 7) + 5(10 + 7)$
c. $25(10 + 7) + 17(20 + 5)$
d. $25(20 + 5) + 17(10 + 7)$
- _____ 16. Which expression is equal to $-4(3x + 4)$?
- a. $-12x + 4$
b. $-12x + 16$
c. $-12x - 16$
d. $-12x - 4$
- _____ 17. Jane, Karen, and Susan are sisters. The difference of Jane's and Susan's ages is 3 years. Karen is 2 years older than Jane. Susan is 8 years old. How old is Karen?
- a. 6 years
b. 9 years
c. 11 years
d. 13 years
- _____ 18. Ron correctly answered 25 of the 30 questions on his math quiz. What fraction of the questions did he miss?
- a. $\frac{1}{6}$
b. $\frac{3}{4}$
c. $\frac{5}{6}$
d. $\frac{6}{5}$
- _____ 19. Which is a set of fractions that are equivalent?
- a. $\frac{3}{10}, \frac{8}{21}$
b. $\frac{5}{16}, \frac{9}{20}$
c. $\frac{21}{24}, \frac{7}{8}$
d. $\frac{3}{5}, \frac{8}{15}$
- _____ 20. In a class of 28 students, 24 bought school lunch. Which fraction is less than the fraction of the students in the class who bought school lunch?
- a. $\frac{24}{27}$
b. $\frac{21}{24}$
c. $\frac{18}{21}$
d. $\frac{20}{24}$



- _____ 21. A pine tree is $8\frac{3}{4}$ feet tall. A spruce tree is $8\frac{5}{7}$ feet tall. An oak tree is $8\frac{7}{8}$ feet tall. A cedar tree is $8\frac{1}{4}$ feet tall. Which tree is the tallest?
- a. cedar tree
b. oak tree
c. pine tree
d. spruce tree
- _____ 22. What is the value of the expression $\frac{3}{7} - \frac{4}{7} + \frac{6}{7}$?
- a. $\frac{1}{7}$
b. $\frac{5}{7}$
c. $\frac{5}{21}$
d. $\frac{13}{7}$
- _____ 23. Simplify the expression $\frac{9}{11} - \frac{6}{11}$.
- a. $\frac{3}{11}$
b. $\frac{15}{11}$
c. $\frac{54}{121}$
d. $1\frac{4}{11}$
- _____ 24. What is the value of $\frac{3}{8} + \frac{5}{12} - \frac{1}{3}$?
- a. $\frac{1}{8}$
b. $\frac{10}{12}$
c. $\frac{11}{24}$
d. $\frac{1}{6}$
- _____ 25. A book that is $1\frac{3}{4}$ inches thick is placed on top of a book that is $\frac{2}{3}$ inch thick. What is the combined thickness of the books?
- a. $1\frac{1}{12}$ in.
b. $1\frac{5}{12}$ in.
c. $2\frac{4}{5}$ in.
d. $2\frac{5}{12}$ in.
- _____ 26. Find the product $-1\frac{1}{3} \times \frac{5}{7}$.
- a. $-1\frac{5}{7}$
b. $-1\frac{1}{7}$
c. $-\frac{20}{21}$
d. $-\frac{5}{14}$
- _____ 27. What is the quotient $-\frac{5}{12} \div \frac{1}{6}$?
- a. $-\frac{5}{2}$
b. $\frac{5}{2}$
c. $-\frac{5}{72}$
d. $-\frac{6}{18}$



- _____ 28. A jug contains $7\frac{1}{2}$ quarts of water. A bottle holds $\frac{3}{4}$ quart of water. How many bottles can you fill using the water from the jug?
- a. 7
b. 10
c. 12
d. 15
- _____ 29. Which list orders the numbers from least to greatest?
- a. $6\frac{3}{4}$, 6.34, $6\frac{6}{7}$, 6.74
b. 6.34, $6\frac{3}{4}$, 6.74, $6\frac{6}{7}$
c. 6.34, 6.74, $6\frac{6}{7}$, $6\frac{3}{4}$
d. 6.34, 6.74, $6\frac{3}{4}$, $6\frac{6}{7}$
- _____ 30. What is 0.39 expressed as a fraction?
- a. $\frac{1}{3}$
b. $\frac{2}{5}$
c. $\frac{13}{33}$
d. $\frac{39}{100}$

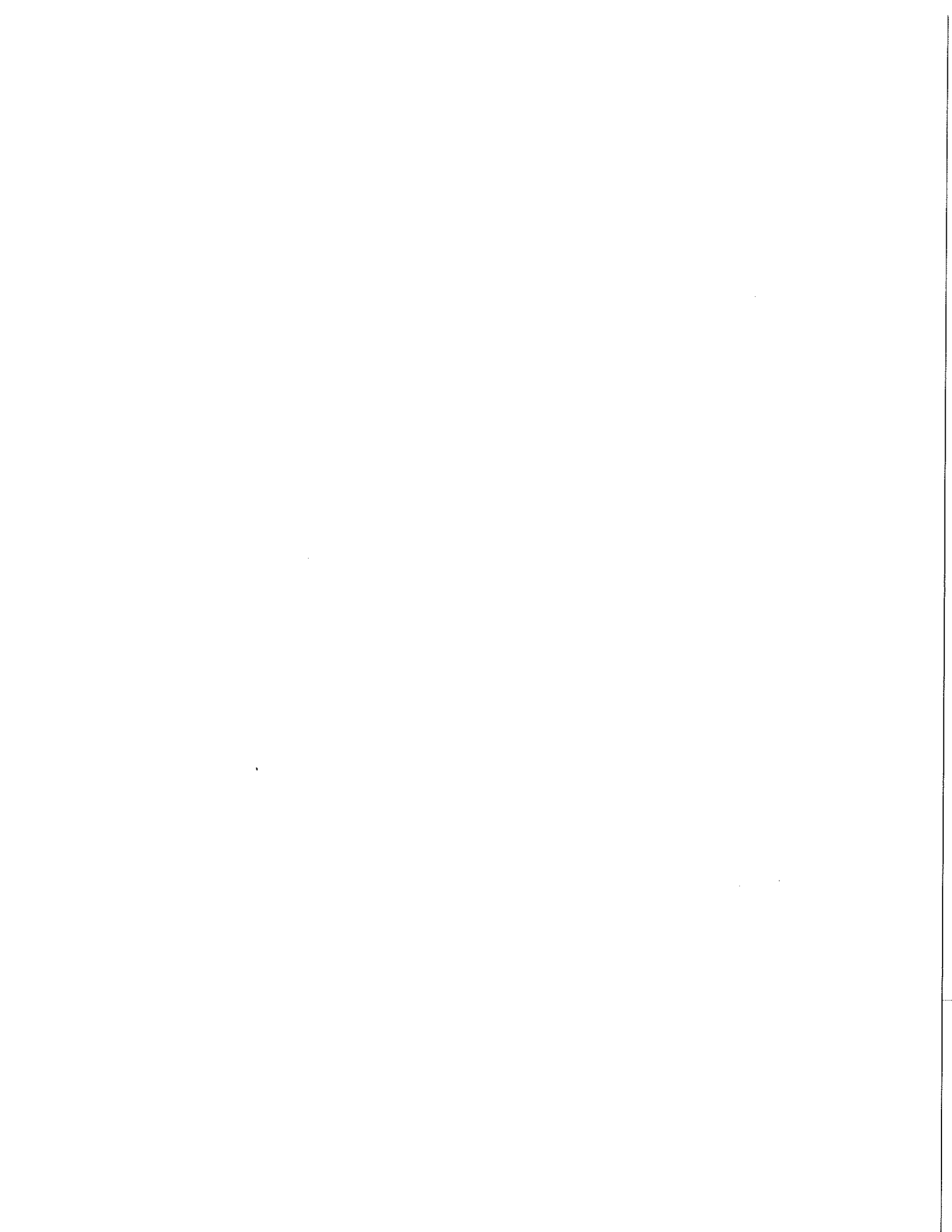
Choose the correct answer.

- _____ 31. Which is greater than $3.\overline{78}$?
- a. 3.787
b. 3.78
c. 3.7
d. 3.8
- _____ 32. Write the numbers in order from least to greatest.
1.66, 1.66, 1.6, 1.665
- a. $1.\overline{66}$, 1.66, 1.6, $1.\overline{665}$
b. 1.665, 1.6, 1.66, $1.\overline{66}$
c. 1.6, 1.66, $1.\overline{665}$, $1.\overline{66}$
d. 1.6, 1.66, $1.\overline{66}$, 1.665
- _____ 33. Find the product 6.7×2.4 .
- a. 2.79
b. 4.30
c. 9.11
d. 16.08

Use the bank record shown to answer the questions. The beginning balance was \$74.21.

Date	Transaction	Deposit	Withdrawal
6/01	Deposit	\$150.00	
6/04	Books		\$24.19
6/07	Maria		\$13.99
6/15	Deposit	\$35.61	
6/28	Concert		\$17.50
6/30	Bill repair		\$12.00

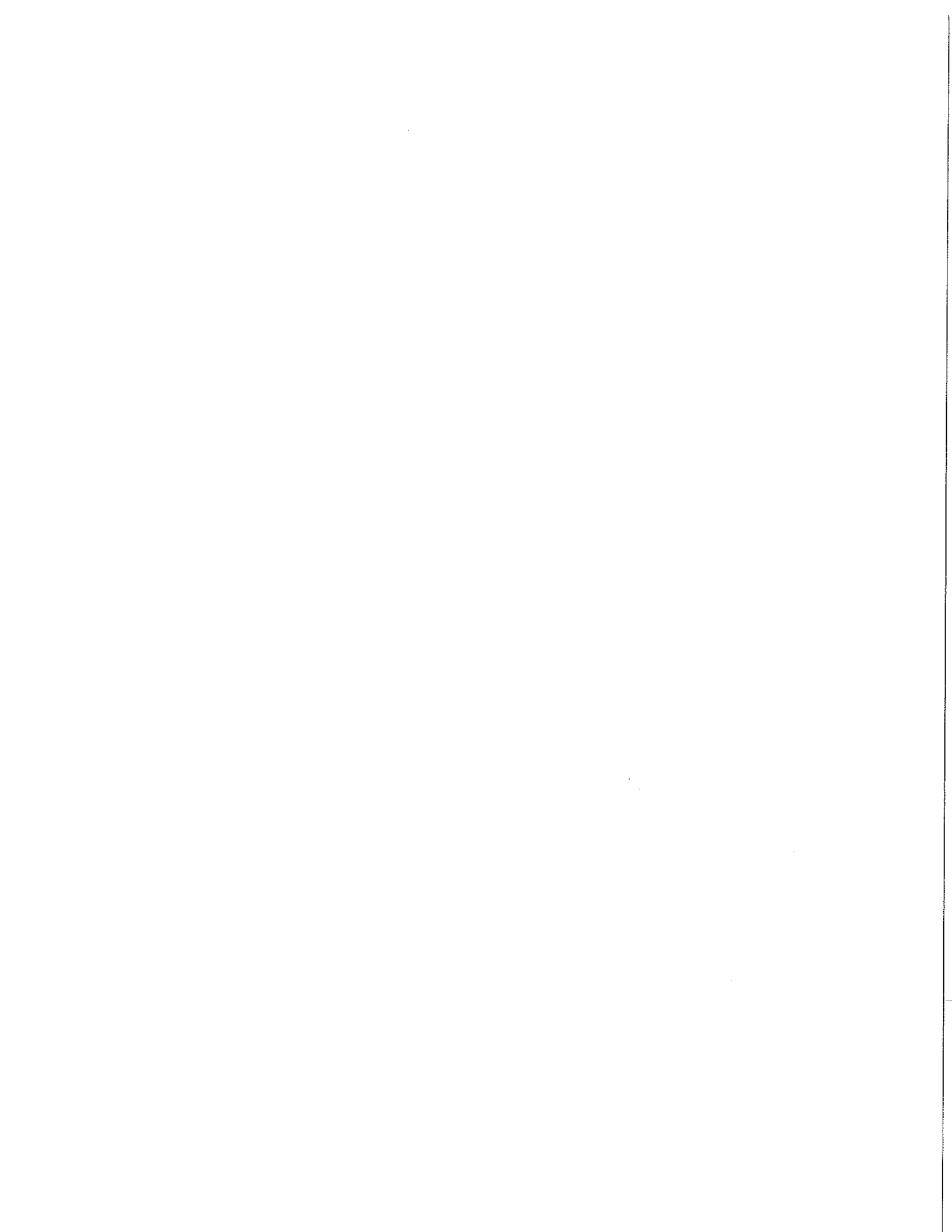
- _____ 34. Estimate the balance at the end of the month.
- a. \$25
b. \$38
c. \$111
d. \$170
- _____ 35. Find the exact balance at the end of the month.
- a. \$25.29
b. \$37.50
c. \$110.74
d. \$169.08

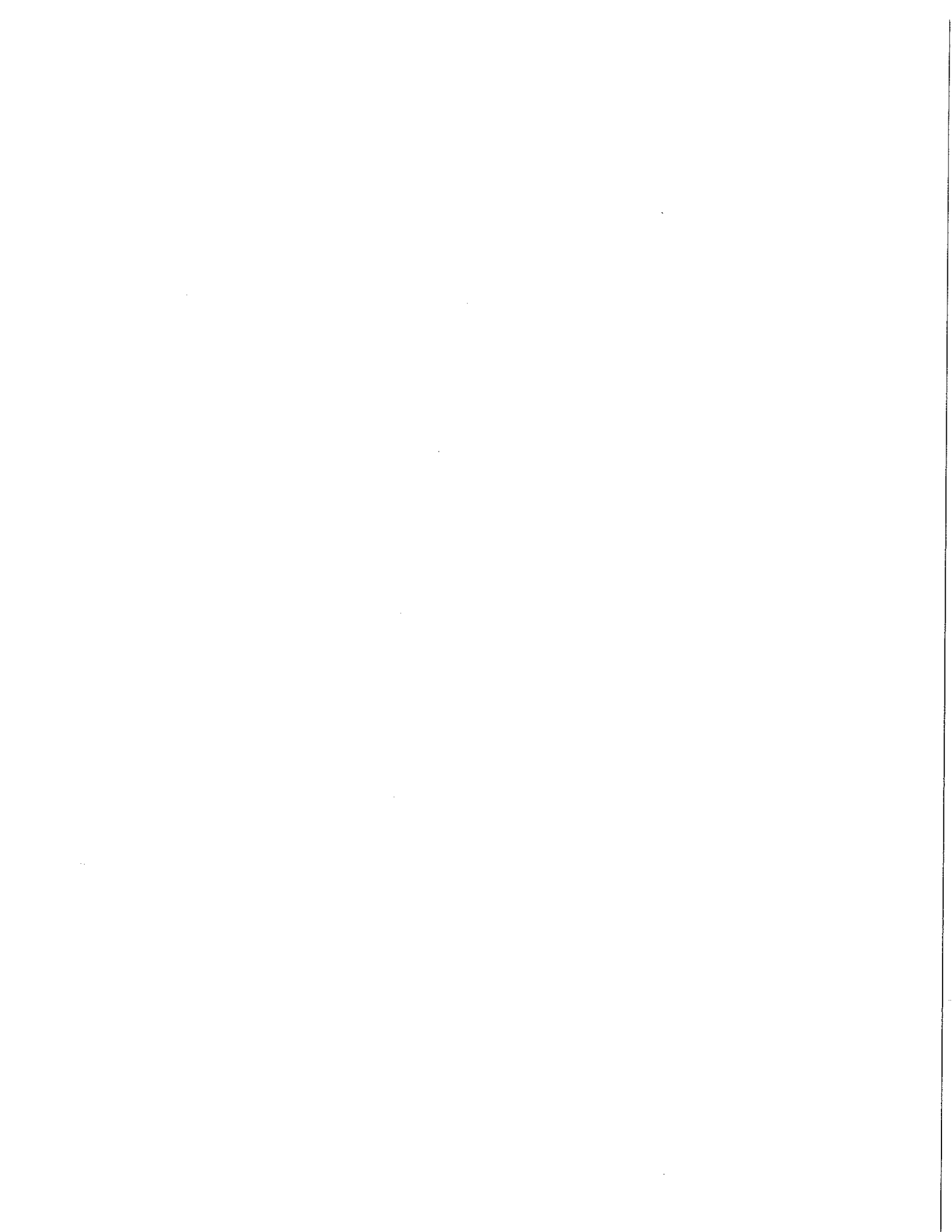


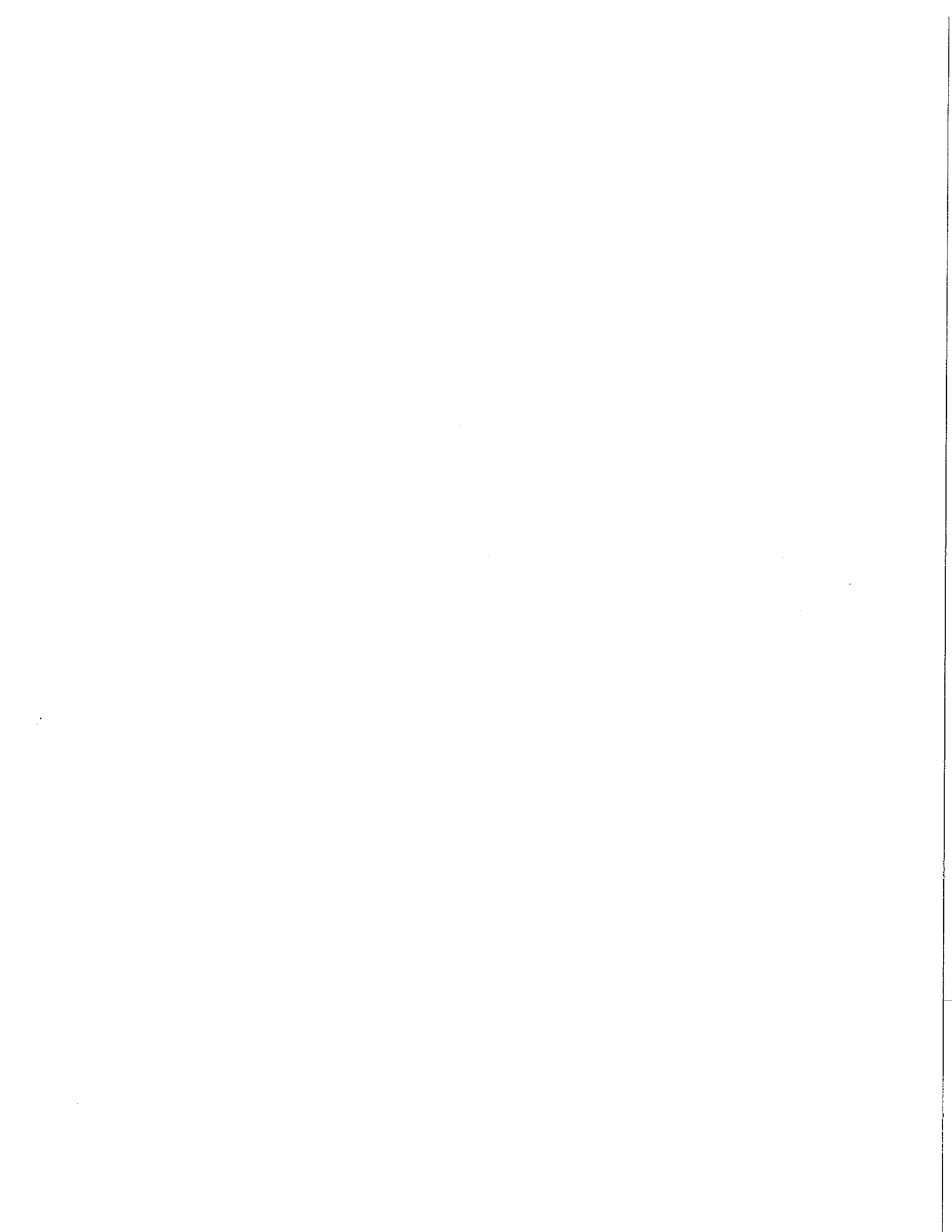
- _____ 36. After the next transaction, the new balance is \$185.75. Was the transaction a deposit or withdrawal? How much was the deposit/withdrawal?
- | | |
|-----------------------|-----------------------|
| a. deposit; \$16.67 | c. deposit; \$75.01 |
| b. withdrawl; \$16.67 | d. withdrawl; \$75.01 |

Choose the correct answer for each.

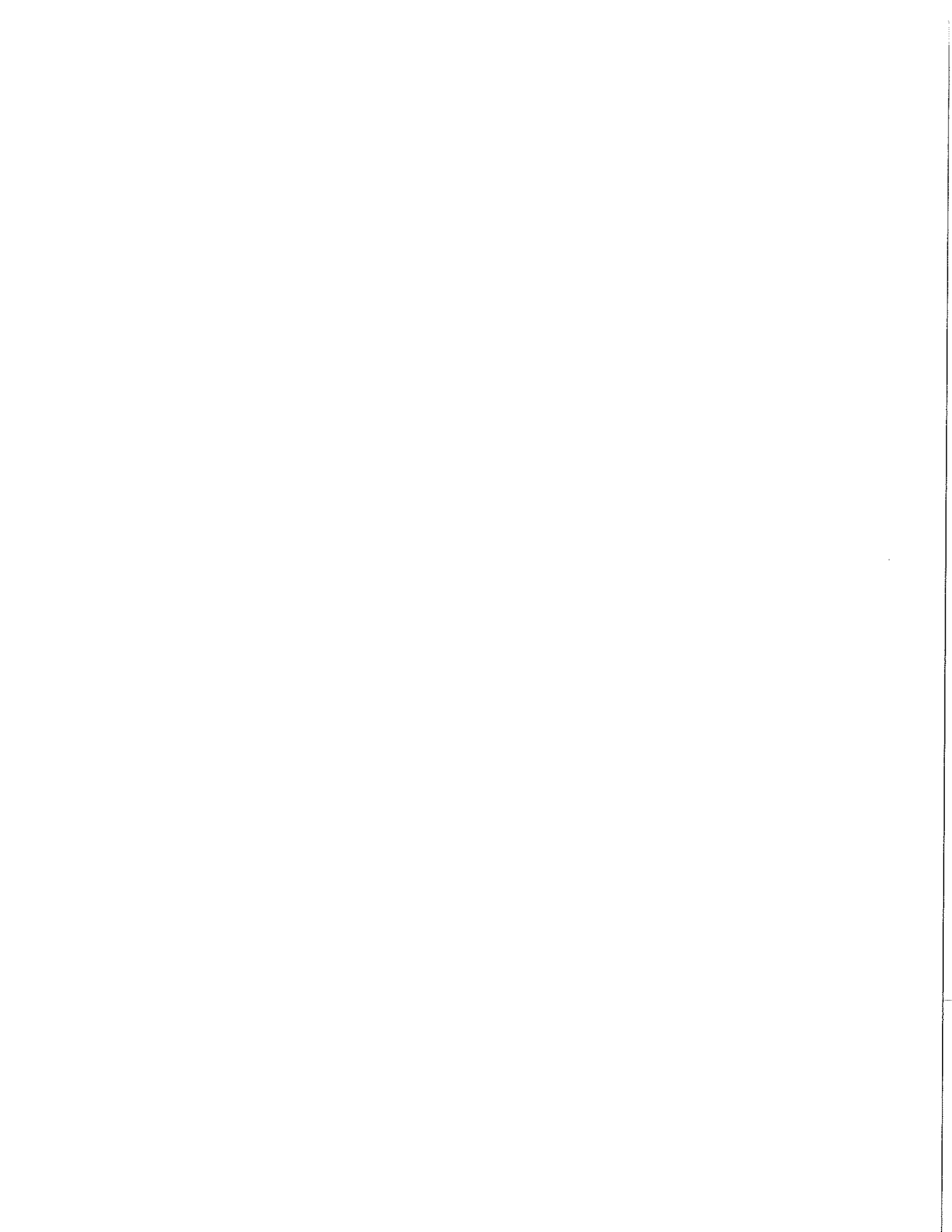
- _____ 37. You are painting a toy box. Paint costs \$0.75 per tube, including tax. You have \$17.25 to spend. How many tubes of paint can you buy?
- | | |
|----------|----------|
| a. 12.25 | c. 23.25 |
| b. 23 | d. 24 |
- _____ 38. What is 108% written as a decimal?
- | | |
|------------|-----------|
| a. 0.00108 | c. 1.08 |
| b. 0.108 | d. 10,800 |
- _____ 39. What number is 75% of 360?
- | | |
|-------|--------|
| a. 15 | c. 270 |
| b. 27 | d. 300 |
- _____ 40. How much is 45% of \$180?
- | | |
|---------|----------|
| a. \$45 | c. \$100 |
| b. \$81 | d. \$135 |
- _____ 41. A racetrack is 440 yards long. Approximately what percent of a mile is the racetrack's length? (Note: 1 mile = 1760 yards)
- | | |
|---------|----------|
| a. 8.3% | c. 40% |
| b. 25% | d. 52.8% |
- _____ 42. Which of the following is a rational number?
- | | |
|----------------|----------------|
| a. $\sqrt{64}$ | c. $\sqrt{3}$ |
| b. π | d. $\sqrt{18}$ |
- _____ 43. What is the value of $\left(\frac{2}{5}\right)^{-3}$?
- | | |
|---------------------|--------------------|
| a. $-\frac{8}{125}$ | c. $\frac{6}{5}$ |
| b. $\frac{8}{125}$ | d. $\frac{125}{8}$ |
- _____ 44. What is the price of a \$22 vase after it is marked up 120%?
- | | |
|------------|-------------|
| a. \$17.60 | c. \$48.40 |
| b. \$26.40 | d. \$144.00 |
- _____ 45. You save \$82.50 when you purchase a bike on sale. The bike was discounted 33% off its regular price. What was the regular price of the bike?
- | | |
|-------------|-------------|
| a. \$109.73 | c. \$247.50 |
| b. \$110.00 | d. \$250.00 |

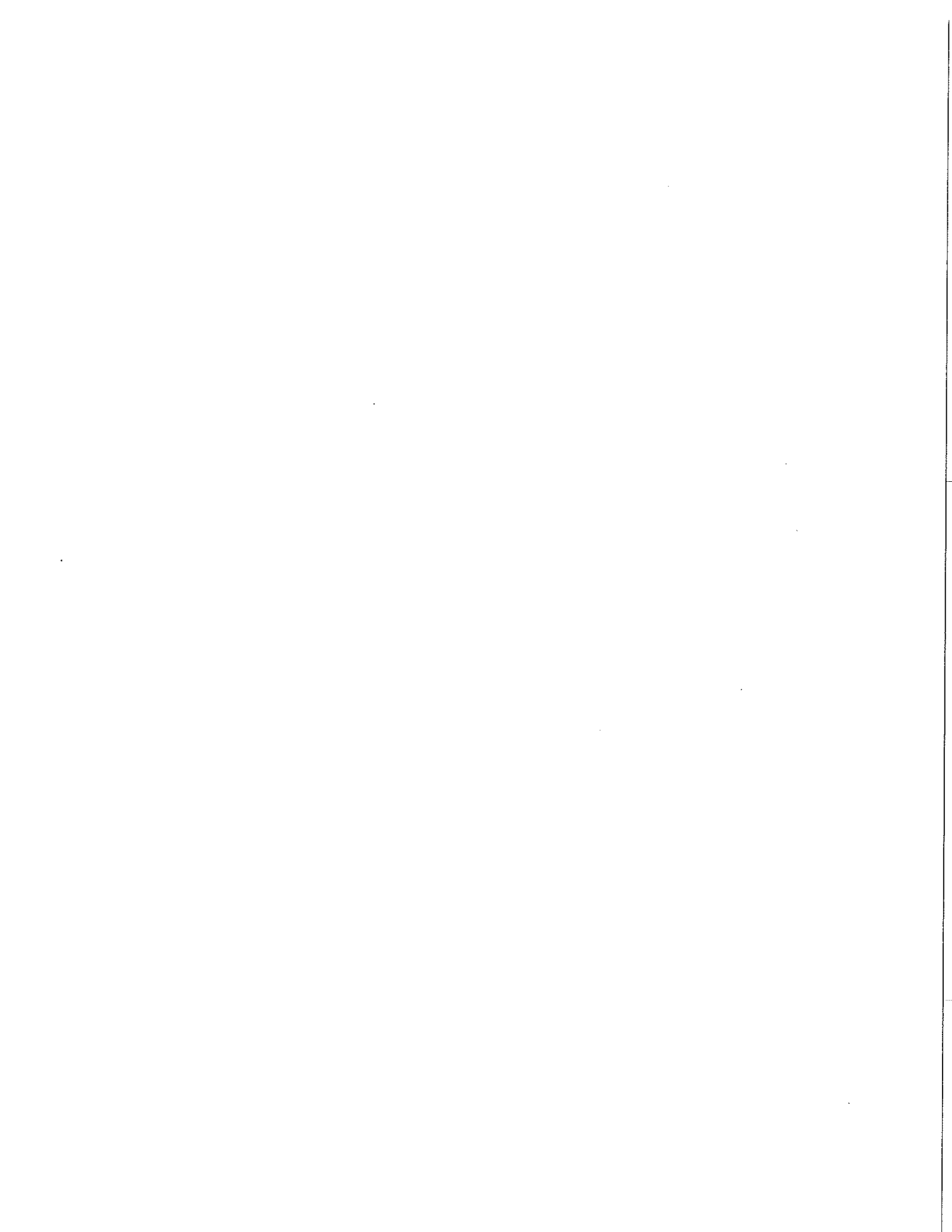






- _____ 66. You are reading a book that has 400 pages. You have already read 275 pages. How many more pages do you have to read to finish the book?
- a. 75
b. 125
c. 225
d. 275
- _____ 67. Which operation should you perform to solve the equation represented by the sentence below? *The quotient of a number and eight is the opposite of twelve.*
- a. Divide each side by 8.
b. Multiply each side by 8.
c. Divide each side by -8 .
d. Multiply each side by -8 .
- _____ 68. What is the solution of $-9 = 0.9x$?
- a. 90
b. 9
c. -10
d. -30
- _____ 69. A bakery sells muffins by the dozen. One muffin costs \$1.50. Which equation can you use to find the cost x of a dozen muffins?
- a. $1.50x = 12$
b. $12x = 1.50$
c. $\frac{x}{12} = 1.50$
d. $x = \frac{1.50}{12}$
- _____ 70. What is the solution of the equation $33 = 11x + 11$?
- a. -2
b. 2
c. 3
d. 22
- _____ 71. Carlos has \$100 to spend on a CD player and 5 CDs. The CD player costs \$25. He spends an equal amount of money on each CD. What is the greatest amount of money Carlos can spend per CD?
- a. \$10
b. \$15
c. \$20
d. \$25
- _____ 72. The difference of twice a number and 2 is 16. Which equation matches this statement?
- a. $2x + 2 = 16$
b. $2x - 2 = 16$
c. $x - 2 = 16$
d. $2x + 16 = 2$
- _____ 73. You earn \$24 walking 3 dogs. You charge the same for each dog you walk. If you earned \$56, how many dogs did you walk?
- a. 5
b. 6
c. 7
d. 8
- _____ 74. Kate plans to spend no more than \$25 at the bookstore. She buys a book for \$16. She'll spend the remaining amount of money x on magazines. Which inequality represents the situation?
- a. $16 + x \geq 25$
b. $16 + x \leq 25$
c. $25 + 16 \geq x$
d. $x \geq 25 - 16$
- _____ 75. Which inequality has 34 for a solution?
- a. $y - 4 \geq 30$
b. $y - 4 > 30$
c. $y - 4 < 30$
d. $y + 4 \leq 30$





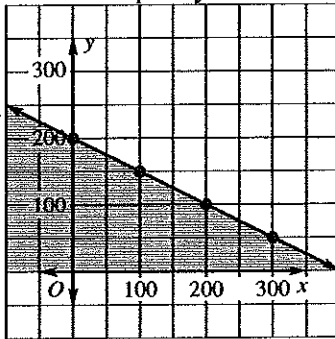
_____ 86. Which statement is true about the graph of a direct variation?

- a. It must pass through the point (1, 1).
- b. It must pass through the point (0, 0).
- c. It has a positive slope.
- d. It has a negative slope.

_____ 87. Which point is a solution of $6x - 5y \leq 9$?

- a. (0, -2)
- b. (0, 0)
- c. (2, 0)
- d. (2, -2)

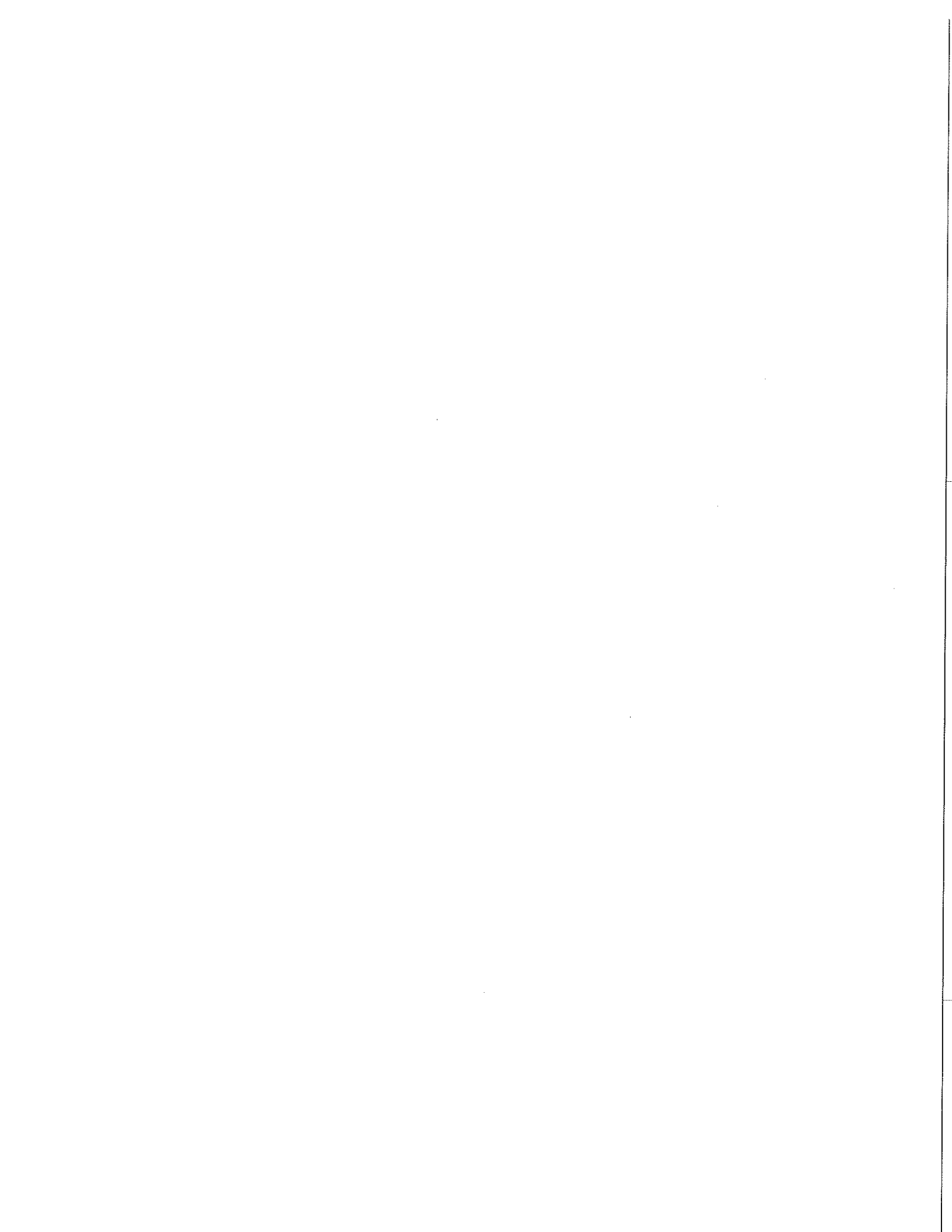
_____ 88. Which inequality describes the graph shown?

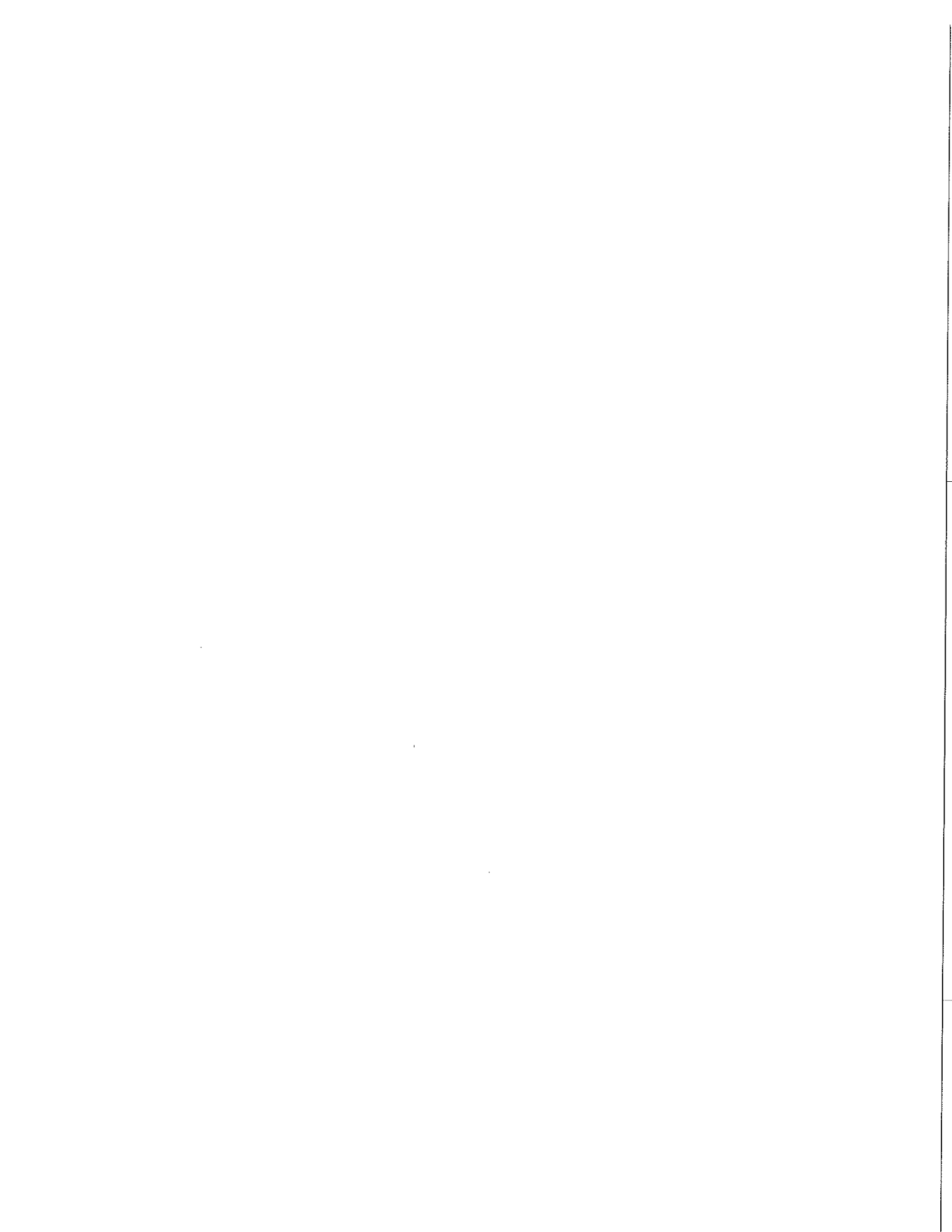


- a. $y \leq \frac{1}{2}x + 200$
- b. $y \geq \frac{1}{2}x + 200$
- c. $y \leq -\frac{1}{2}x + 200$
- d. $y \geq -\frac{1}{2}x + 200$

_____ 89. You can get a premium movie membership for \$20 a month. With the membership, each movie rental costs \$1. Without the membership, each rental costs \$5. How many movies can you rent so that the total cost of renting with membership is less than the total cost of renting without membership?

- a. 5
- b. 6
- c. 7
- d. 20





Name: _____

96. Simplify the expression $\sqrt{18a^3b^6}$.

a. $3ab^3\sqrt{2a}$

c. $2a\sqrt{3ab^3}$

b. $9b^2\sqrt{a^3}$

d. $9a^2b^4\sqrt{2a}$

97. Which of the following relations is *not* a function?

a. (2, 3), (3, 4), (4, 5), (5, 6)

c. (0, 4), (2, 0), (4, -4), (6, -8)

b. (-6, 0), (3, 2), (0, 4), (3, 6)

d. (8, 7), (6, 5), (4, 3), (2, 1)

98. If the domain of function rule $y = 3x$ is -2, -1, 0, 1, and 2, what is the range?

a. -6, -3, 0, 3, 6

c. 0, 3, 6

b. 1, 2, 3, 4, 5

d. -5, -4, -3, -2, -1

99. Which function rule relates x and y in the set of ordered pairs (5, 1), (10, 2), and (15, 3)?

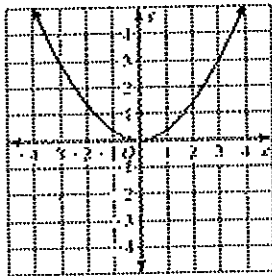
a. $y = \frac{1}{5}x$

c. $y = x - 4$

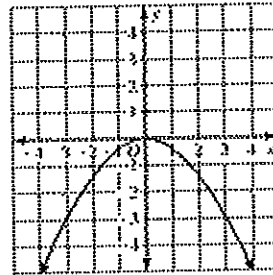
b. $y = 5x$

d. $y = x - 12$

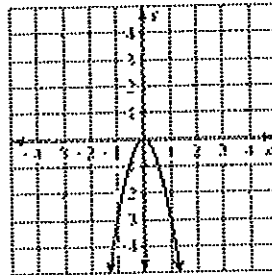
100. Which graph represents the function $y = -3x^2$?



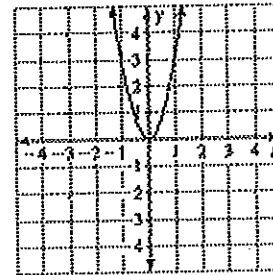
a.



c.



b.



d.

101. How many kilometers is equivalent to 2000 meters?

a. 200,000 km

c. 2 km

b. 20,000 km

d. 0.002 km

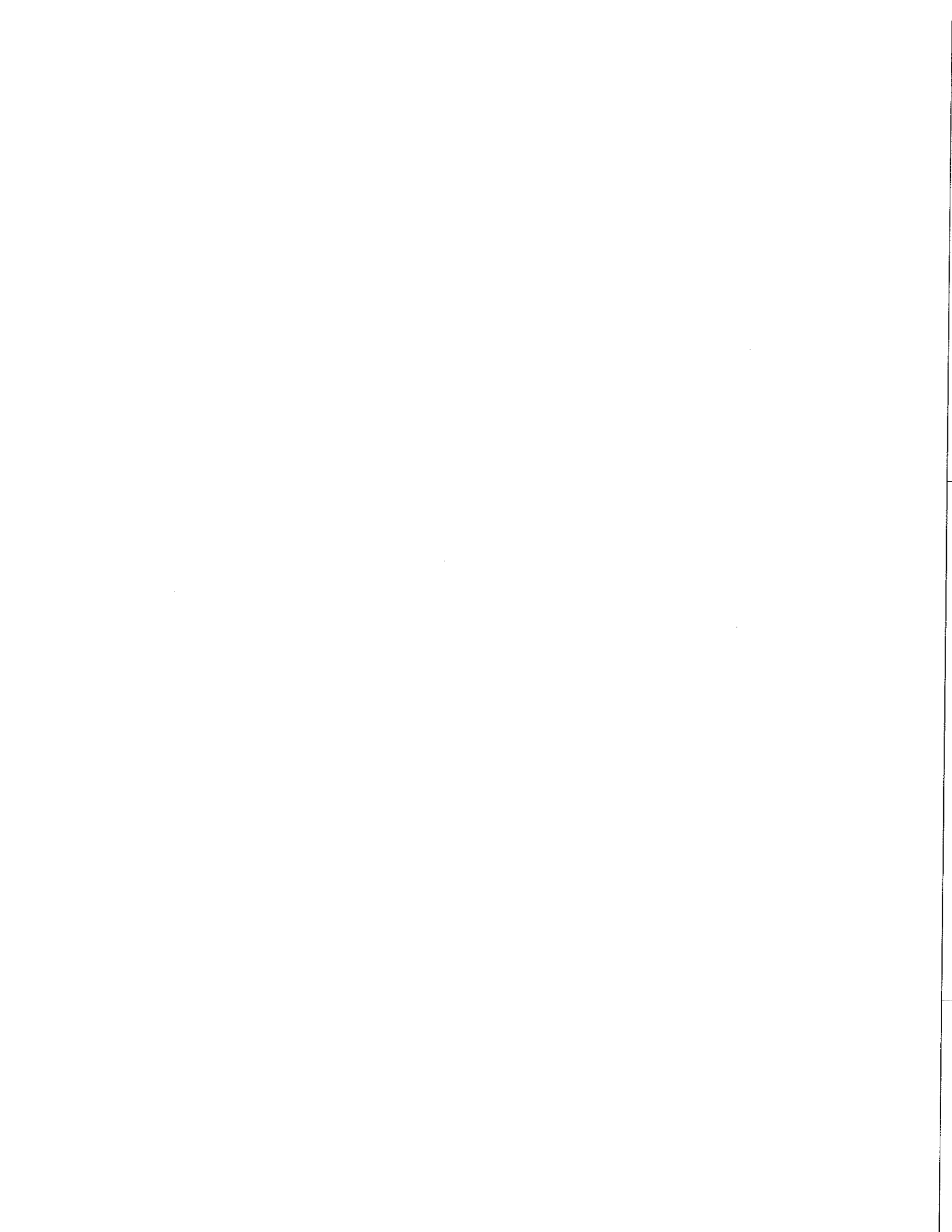
102. Which of the following statements is not true?

a. 2 hours and 10 minutes < 144 minutes

b. 3 days and 3 hours > 52 hours

c. 11 minutes and 38 seconds > 698 seconds

d. 4 hours and 15 minutes < 600 minutes



103. Bill's heart beats 360 times in 5 minutes. Alise's heart beats at a slower rate. Which of the following could describe Alise's heart rate?
- a. It beats 320 times in 4 minutes. c. It beats 426 times in 6 minutes.
b. It beats 525 times in 7 minutes. d. It beats 460 times in 5 minutes.
104. A building foreman estimates that a job will take 2000 person-hours to complete. About how long will it take 6 workers to finish the job?
- a. less than 1 day c. 84 days
b. 14 days d. 500 days

105. Tapo is converting a measurement in mL to cups. Which conversion factors should he use?

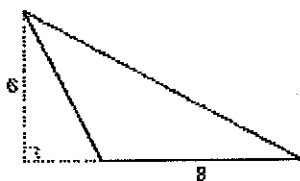
- a. $\frac{1 \text{ fl oz}}{29.573 \text{ mL}} \cdot \frac{8 \text{ oz}}{1 \text{ c}}$ c. $\frac{29.573 \text{ mL}}{1 \text{ fl oz}} \cdot \frac{8 \text{ oz}}{1 \text{ c}}$
b. $\frac{1 \text{ fl oz}}{29.573 \text{ mL}} \cdot \frac{1 \text{ c}}{8 \text{ oz}}$ d. $\frac{29.573 \text{ mL}}{1 \text{ fl oz}} \cdot \frac{1 \text{ c}}{8 \text{ oz}}$

106. Your dog trots at 5 miles per hour. About how fast does your dog trot in kilometers per minute?
- a. 0.134 km/m c. 186.45 km/m
b. 7.2 km/m d. 482.7 km/m

107. The pencil sharpener is the midpoint of the segment formed by the windowsill. The distance from one edge of the windowsill to the pencil sharpener is 14 inches. How long is the windowsill?
- a. 7 in c. 28 in
b. 14 in d. 42 in

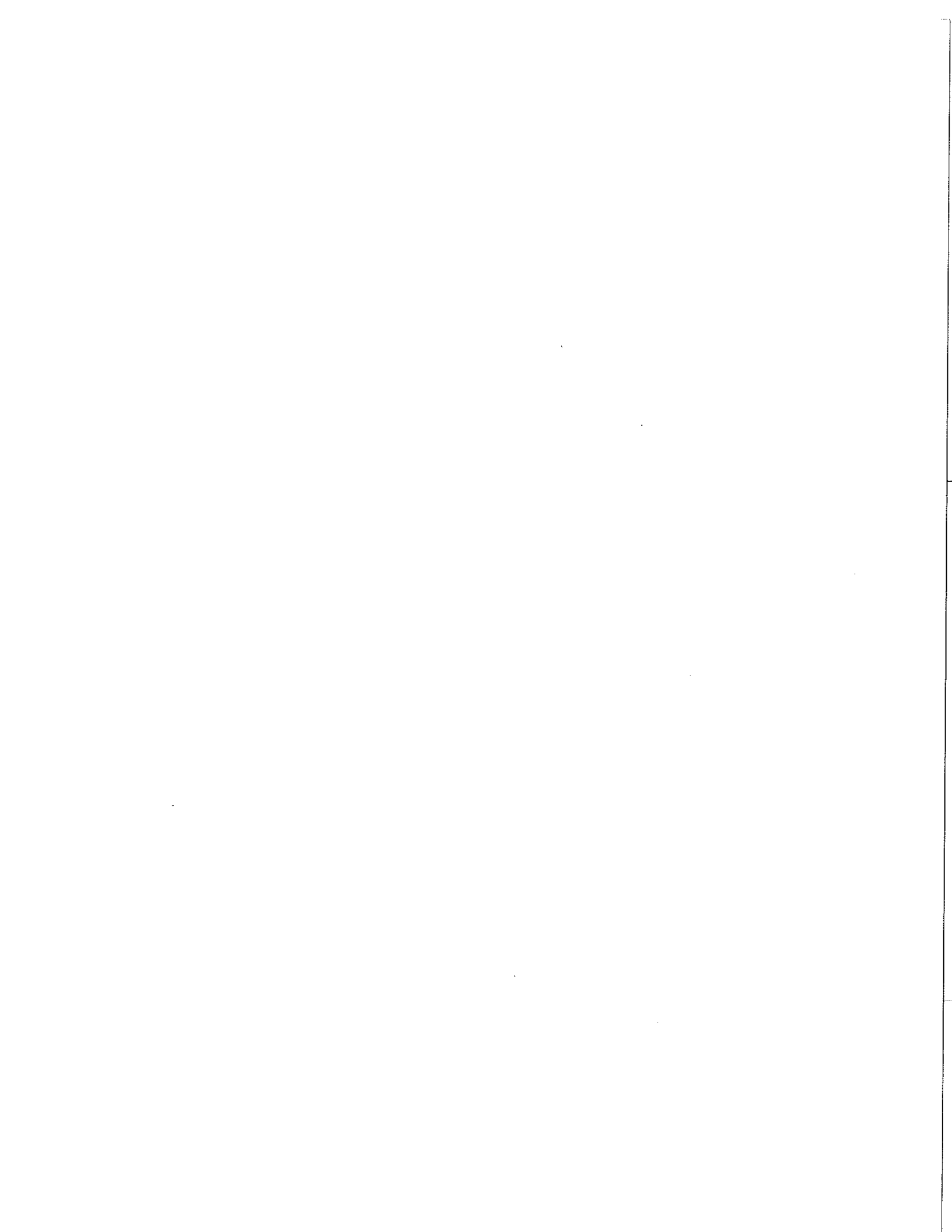
108. In a drawing, \overrightarrow{AB} bisects $\angle CAD$. The measure of $\angle CAB$ is 66° . What is the measure of $\angle BAC$?
- a. 33° c. 132°
b. 66° d. 180°

109. Use the figure below.



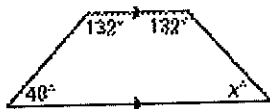
Find the area of the triangle.

- a. 14 units c. 48 units
b. 24 units d. 62 units
110. A triangle has an area of 6 square feet. Which measurements *cannot* be the base length b and height h of the triangle?
- a. $h = 1 \text{ ft}, b = 12 \text{ ft}$ c. $h = 4 \text{ ft}, b = 6 \text{ ft}$
b. $h = 6 \text{ ft}, b = 2 \text{ ft}$ d. $h = 4 \text{ ft}, b = 3 \text{ ft}$

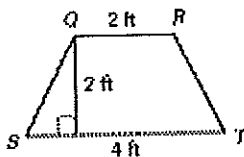


Name: _____

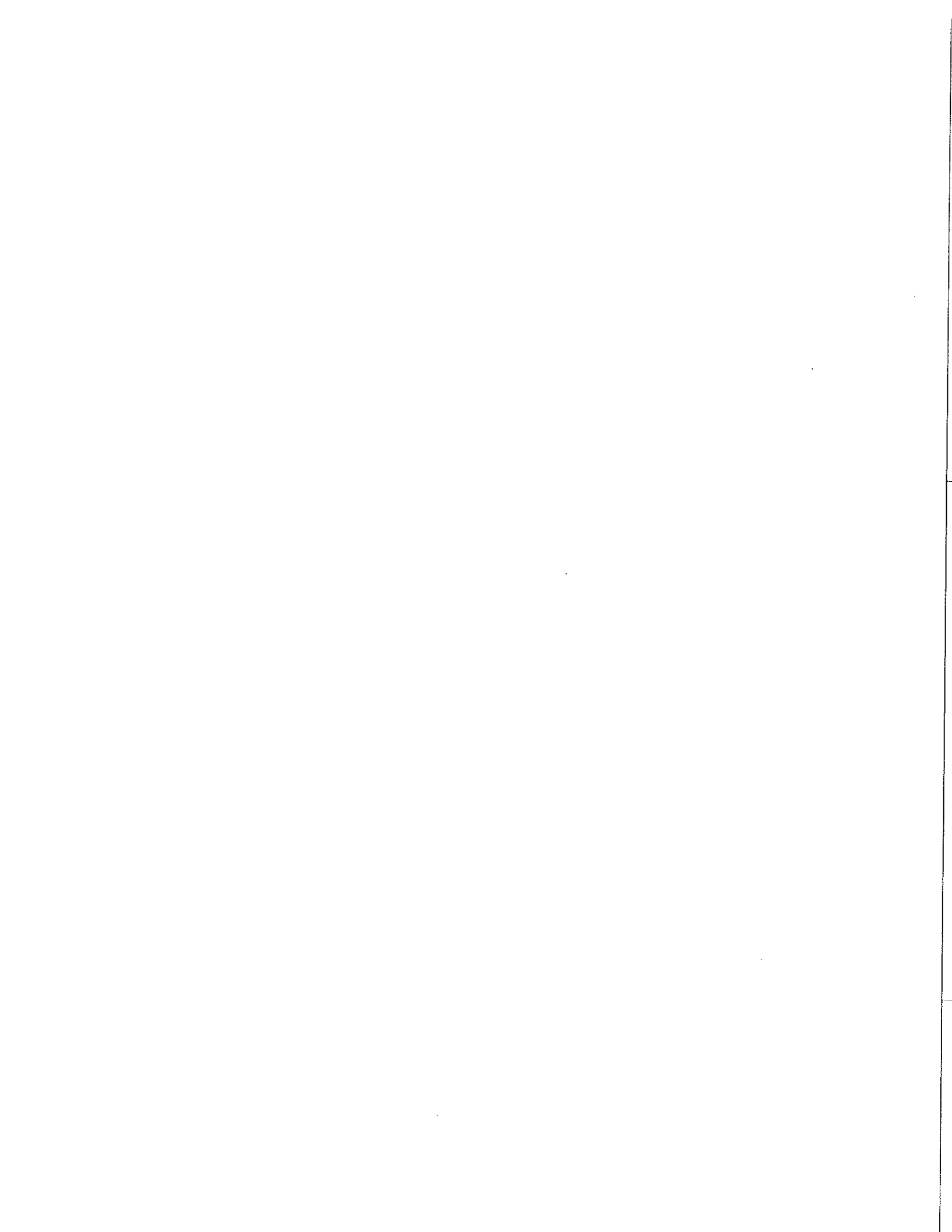
111. Determine whether a triangle with side lengths of 5, 8, and 12 is a right triangle.
- a. Yes, $5^2 + 8^2 = 12^2$ c. No, $5^2 + 8^2 > 12^2$
 b. No, $5^2 + 8^2 \neq 12^2$ d. Yes, $5^2 + 8^2 \leq 12^2$
112. A 16-foot ladder rests against the side of your school. The base of the ladder is 4 feet away from the school. About how high above the ground is the top of the ladder?
- a. 15.5 ft c. 20 ft
 b. 16.5 ft d. 240 ft
113. What is the perimeter of a right triangle whose leg lengths are 7.5 inches and 18 inches? Round to the nearest tenth of an inch.
- a. 19.5 in. c. 45 in.
 b. 38.1 in. d. 135 in.²
114. Find the value of x in the quadrilateral.



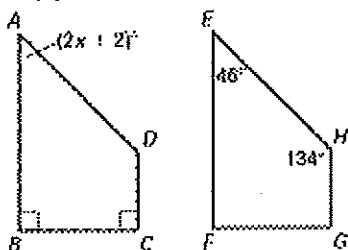
- a. 20° c. 90°
 b. 48° d. 132°
115. What is the area of a parallelogram with a base of 18 feet and a height of 14 feet?
- a. 64 ft^2 c. 252 ft^2
 b. 126 ft^2 d. 504 ft^2
116. The dimensions of a trapezoid $QRST$ are shown below. Find the area of the trapezoid.



- a. 4 ft^2 c. 8 ft^2
 b. 6 ft^2 d. 12 ft^2
117. The wheels on John's bike have a diameter of 26 inches. What is the circumference of the wheels? Use 3.14 for π .
- a. 13 in. c. 62.8 in.
 b. 26 in. d. 81.64 in.
118. You have a circular rug with a diameter of 10 feet. Find the area of the rug.
- a. 15.7 ft^2 c. 78.5 ft^2
 b. 31.4 ft^2 d. 314.1 ft^2

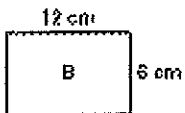
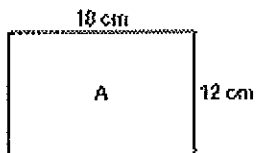


119. Polygon $ABCD \cong$ polygon $EFGH$. Find the value of x .



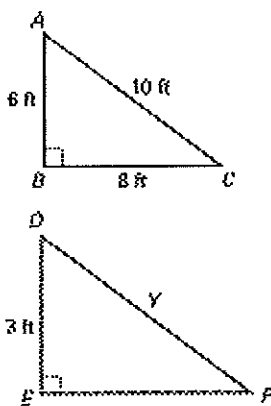
- a. 10
- b. 12
- c. 22
- d. 23

120. Which of the rectangles are similar?

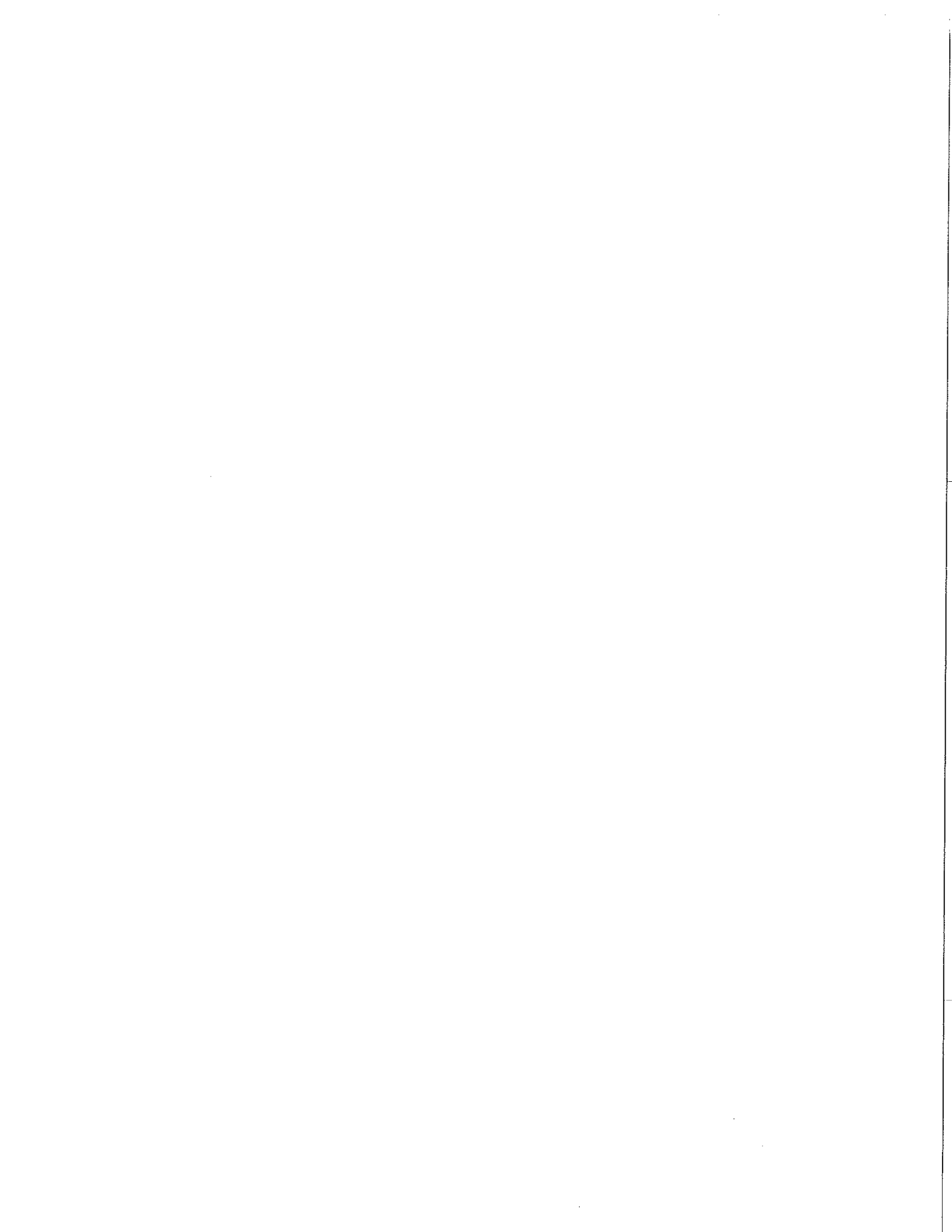


- a. A and B
- b. A and C
- c. B and C
- d. none are similar

121. In the diagram, $\triangle ABC \sim \triangle DEF$. What is the value of y ?



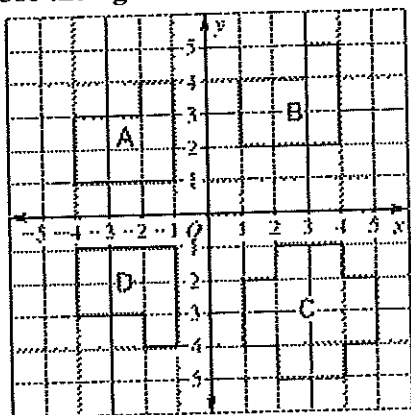
- a. 4 ft
- b. 5 ft
- c. 16 ft
- d. 20 ft



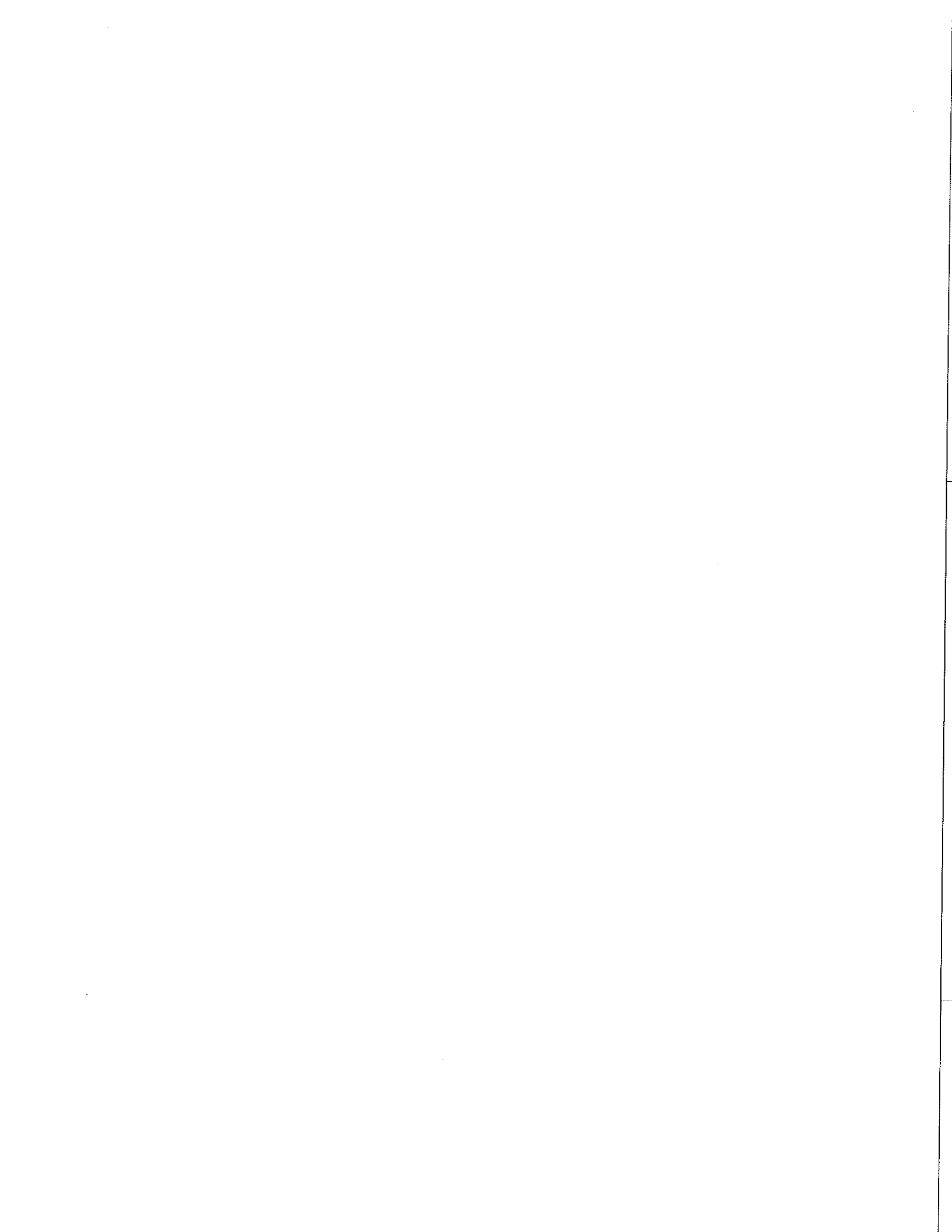
Name: _____

122. $\triangle ABC$ has vertices $A(-3, 4)$, $B(-1, 1)$, and $C(-4, 1)$. Find the vertices of the triangle's image after $\triangle ABC$ is shifted left 3 units and up 2 units.
- $A = (0, 6)$, $B = (2, 3)$, $C = (-1, 3)$
 - $A = (-6, 6)$, $B = (-4, 3)$, $C = (-7, 3)$
 - $A = (-1, 1)$, $B = (1, -2)$, $C = (-2, -2)$
 - $A = (-1, 7)$, $B = (1, 4)$, $C = (-2, 4)$

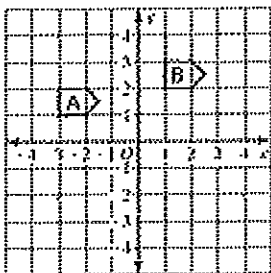
Use the figure to answer the question.



123. Which figure is a reflected image of figure D?
- figure A
 - figure B
 - figure C
 - none
124. How many lines of symmetry does figure C have?
- 0
 - 1
 - 2
 - 4
125. $\triangle DEF$ is reflected in the y -axis to form $\triangle D'E'F'$. The coordinates of point D are $(-2, 5)$. What are the coordinates of D' ?
- $(2, 5)$
 - $(2, -5)$
 - $(-2, 5)$
 - $(-2, -5)$



- _____ 126. Which transformation makes figure B the image of figure A?

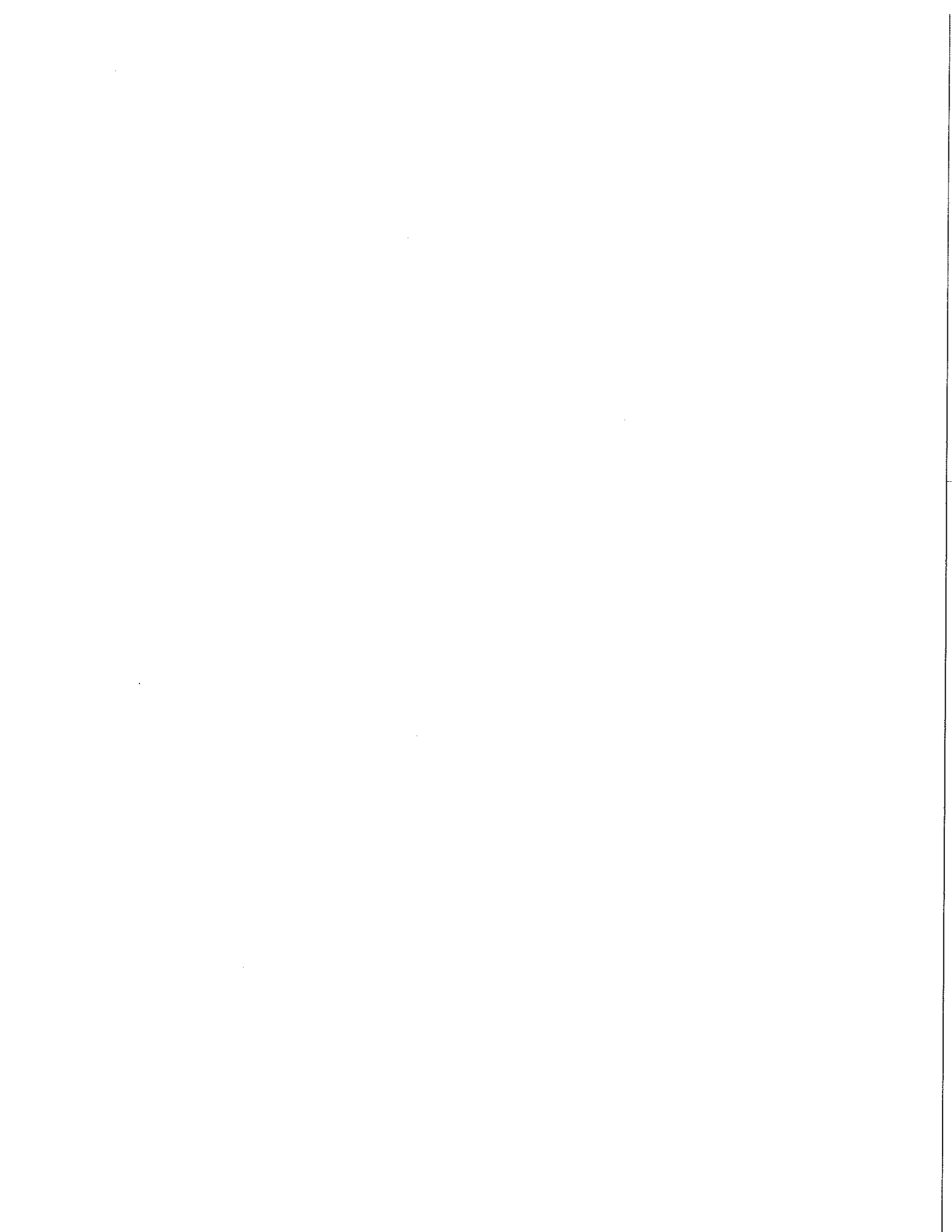


- a. $(x, y) \rightarrow (x + 4, y + 1)$ c. reflection in the y -axis
 b. $(x, y) \rightarrow (x - 4, y - 1)$ d. 90° rotation
- _____ 127. $TUVW$ is a dilation of $PQRS$. $PQRS$ has vertices $P(-1, 2)$, $Q(2, 2)$, $R(2, -2)$, and $S(-2, -1)$. $TUVW$ has vertices $T(-3, 6)$, $U(6, 6)$, $V(6, -6)$, and $W(-6, -3)$. What is the scale factor?
- a. $\frac{1}{3}$ c. 3
 b. 2 d. 4
- _____ 128. A necklace has 8 green beads for every 5 blue beads. The necklace has 25 blue beads. Which proportion can you use to find how many green beads are in the necklace?
- a. $\frac{25}{n} = \frac{8}{5}$ c. $\frac{n}{8} = \frac{5}{25}$
 b. $\frac{n}{25} = \frac{5}{8}$ d. $\frac{25}{n} = \frac{5}{8}$
- _____ 129. The scale on a map is $\frac{1}{4}$ inch: 15 miles. The distance from Center City to Springfield is about 2 inches on the map. About how far is it from Center City to Springfield?
- a. 15 miles c. 120 miles
 b. 60 miles d. 150 miles

Use this information to answer the question.

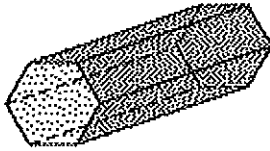
You have a photo that measures 3 inches wide by 4 inches long. You want to enlarge it so the photo is 6 inches long.

- _____ 130. Find the scale factor.
- a. .5 in. c. 2 in.
 b. 1.5 in. d. 3 in.
- _____ 131. What will be the width of the enlarged photo?
- a. 2 in. c. 5.5 in.
 b. 4.5 in. d. 6 in.
- _____ 132. Plane x is perpendicular to plane y . What is the intersection of planes x and y ?
- a. A point c. A plane
 b. A line d. Plane x and plane y do not intersect.

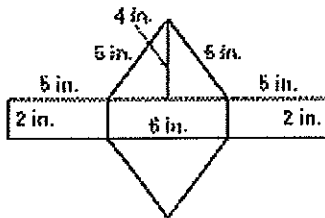


- _____ 133. What kind of lines always intersect?
- a. parallel lines
b. skew lines
c. coplanar lines
d. perpendicular lines

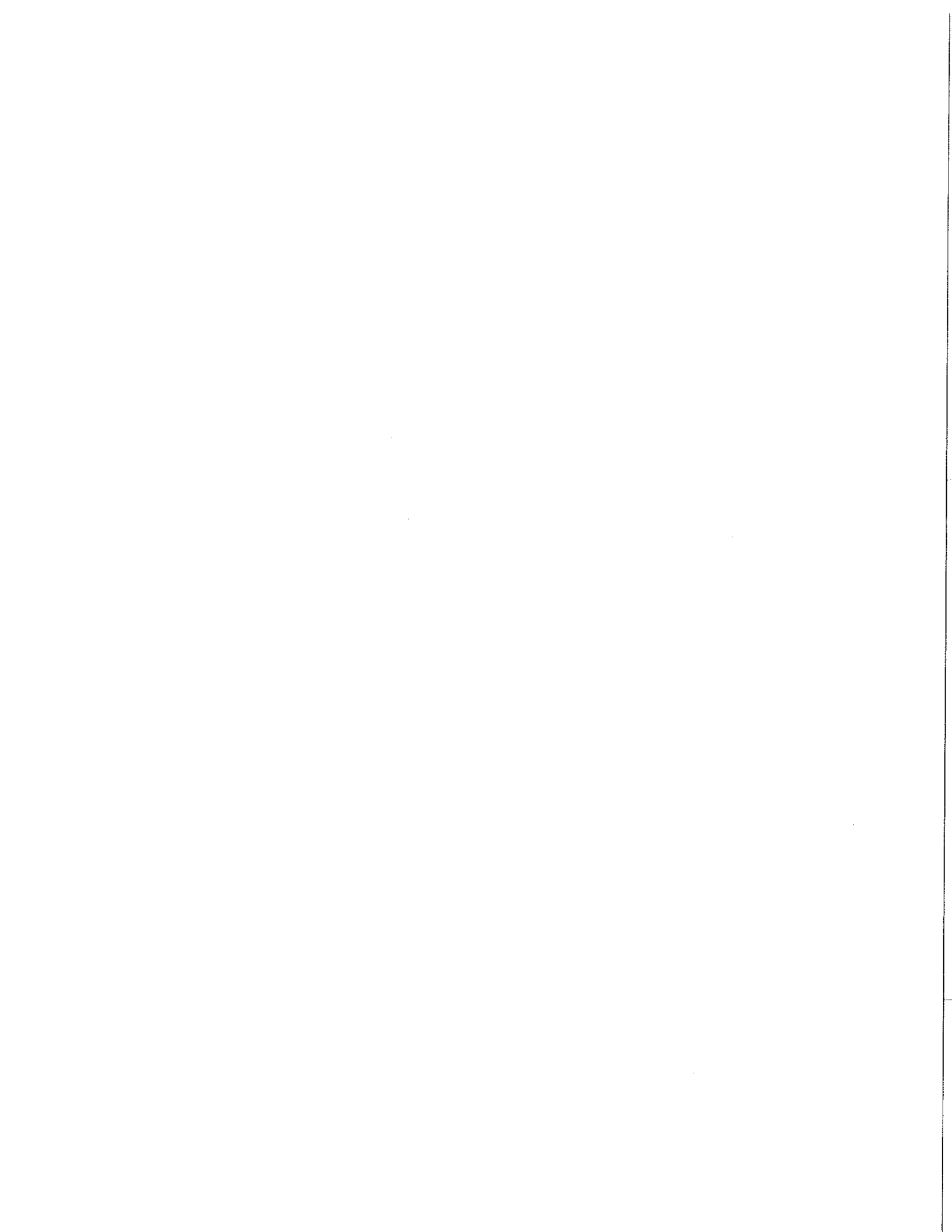
Use the figure to answer the question.

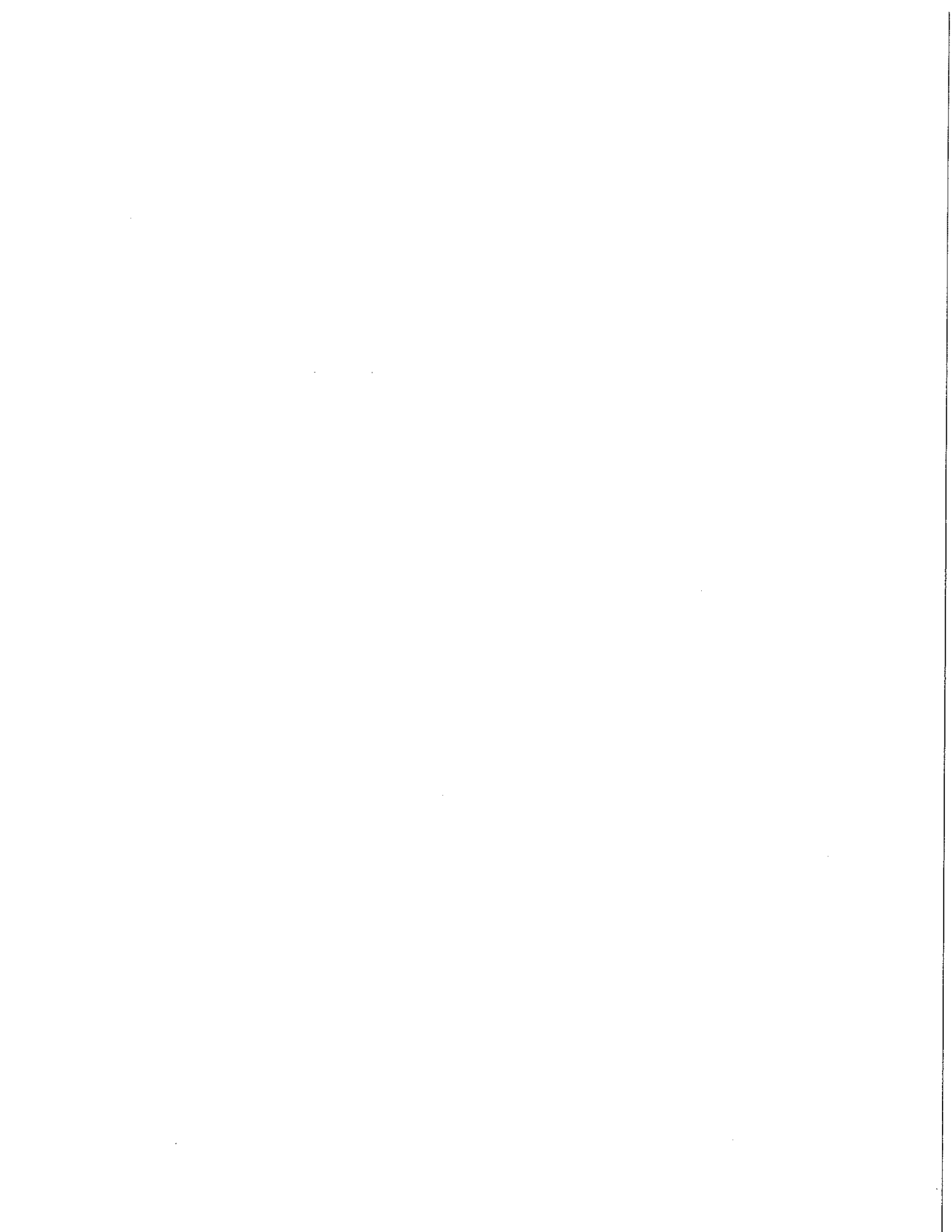


- _____ 134. Which describes the solid above?
- a. pentagonal prism
b. hexagonal prism
c. hexagonal pyramid
d. octagonal prism
- _____ 135. How many faces, edges, and vertices does the solid have?
- a. faces: 8; edges: 18; vertices: 12
b. faces: 8; edges: 12; vertices: 18
c. faces: 12; edges: 8; vertices: 18
d. faces: 18; edges: 12; vertices: 8
- _____ 136. A net of a solid is shown. Find the surface area of the solid.



- a. 34 in.^2
b. 65 in.^2
c. 46 in.^2
d. 56 in.^2
- _____ 137. A cubic toy box has side lengths of 3 feet. What is the least amount of wrapping paper needed to cover the surface of the entire box?
- a. 18 ft^2
b. 36 ft^2
c. 54 ft^2
d. 108 ft^2
- _____ 138. What is the surface area of a square pyramid with a base side length of 6 inches and a slant height of 5 inches?
- a. 60 in.^2
b. 85 in.^2
c. 96 in.^2
d. 110.5 in.^2
- _____ 139. Approximate the lateral surface area of a cone-shaped paper cup with an open base. The radius of the base is 1 inch and the slant height is 3.75 inches.
- a. 11.8 in.^2
b. 14.9 in.^2
c. 23.6 in.^2
d. 36.0 in.^2





- ____ 148. Ten students take a quiz with 20 questions. Their scores for correct answers are shown below. Which measures best represent the data?
1, 17, 18, 18, 19, 19, 19, 19, 20, 20
- a. mean and median
 - b. mode and median
 - c. mean and mode
 - d. mean, median, and mode

- ____ 149. Choose an appropriate display for the data.

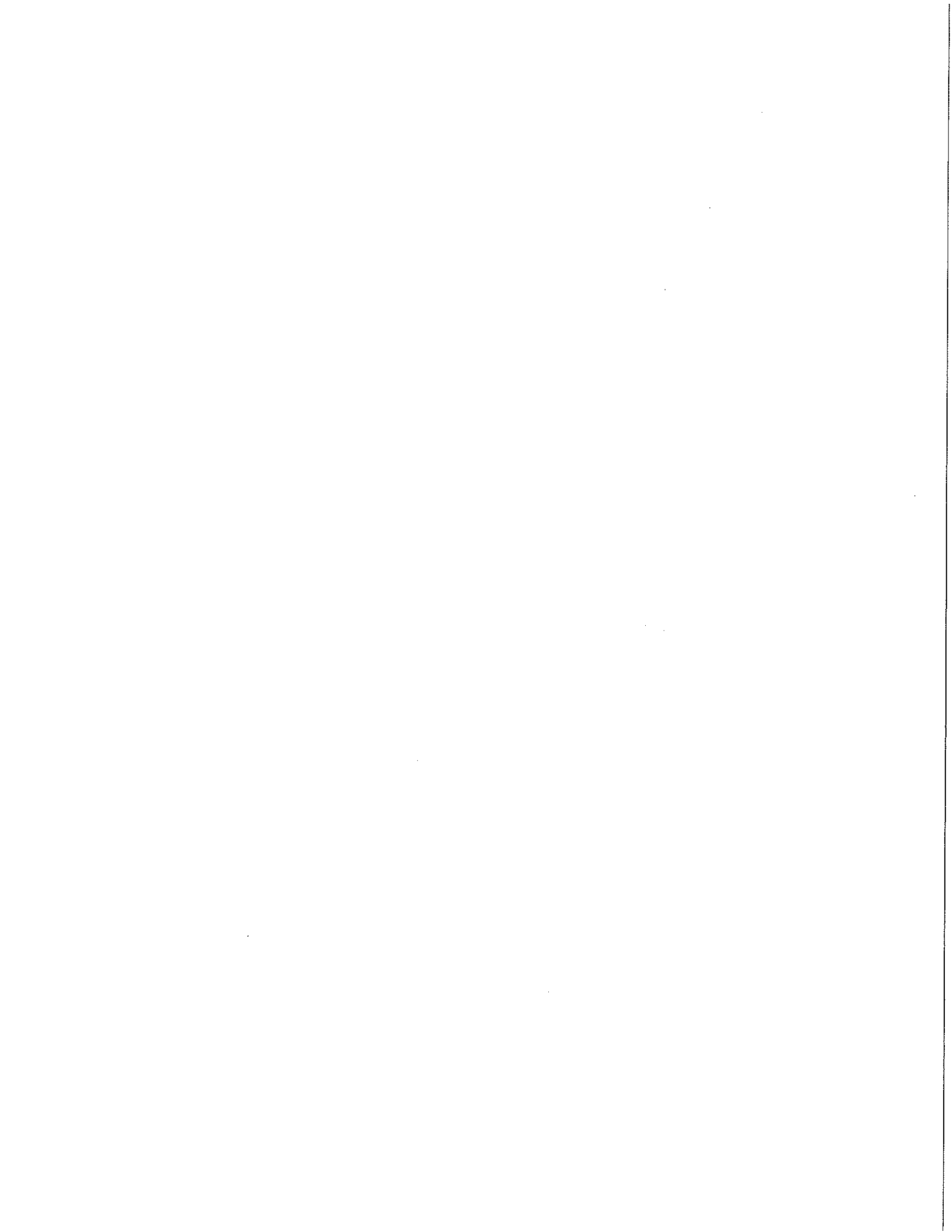
Response	Percent
Blue	40%
Green	25%
Red	35%

- a. single bar graph
 - b. circle graph
 - c. line graph
 - d. triple bar graph
- ____ 150. You asked 60 students about their favorite school lunch item. Fifteen students responded that their favorite item was pizza. On a circle graph showing this data, what is the angle measure for the section that represents pizza?
- a. 15
 - b. 24
 - c. 25
 - d. 90

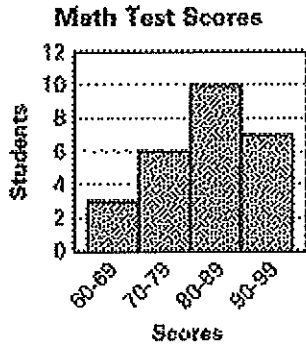
Use the following information to answer the question.

**The data shows the heights, in meters, of some of the tallest buildings in the world.
344, 300, 319, 307, 369, 320, 303, 348, 346, 305, 312, 321, 346, 322, 310, 325**

- ____ 151. Which interval has the greatest frequency?
- a. 300 - 320
 - b. 320 - 340
 - c. 340 - 360
 - d. 360 - 380
- ____ 152. Which value has the greatest frequency?
- a. 300
 - b. 320
 - c. 346
 - d. 369
- ____ 153. What is the frequency of the interval 340 - 360?
- a. 2
 - b. 4
 - c. 6
 - d. 8



154. The histogram shows the math test scores of 26 students. How many students scored between 80 and 99?



- a. 7
- b. 17
- c. 23
- d. 26

155. When the numbers 17.8, 18.7, and 19.2 are plotted on a stem-and-leaf plot, which number is *not* a leaf?

- a. 2
- b. 18
- c. 7
- d. 8

156. The number of minutes that 7 phone calls placed in November lasted was 12, 17, 30, 29, 25, 32, and 11. The number of minutes that 7 phone calls placed in December lasted was 47, 19, 21, 33, 13, 28, and 38. What would a stem and leaf plot for the two months of data look like?

a.

Minutes on Phone		
Nov		Dec
1 2 7	1	3 9
5 9	2	1 8
0 2	3	3 8
	4	7

c.

Minutes on Phone		
Nov		Dec
1	1 2 3 7 9	1
2	1 5 8 9	2
3	0 2 3 8	3
4	7	4

b.

Minutes on Phone		
Dec		Nov
1 2 7	1	3 9
5 9	2	1 8
0 2	3	3 8
	4	7

d.

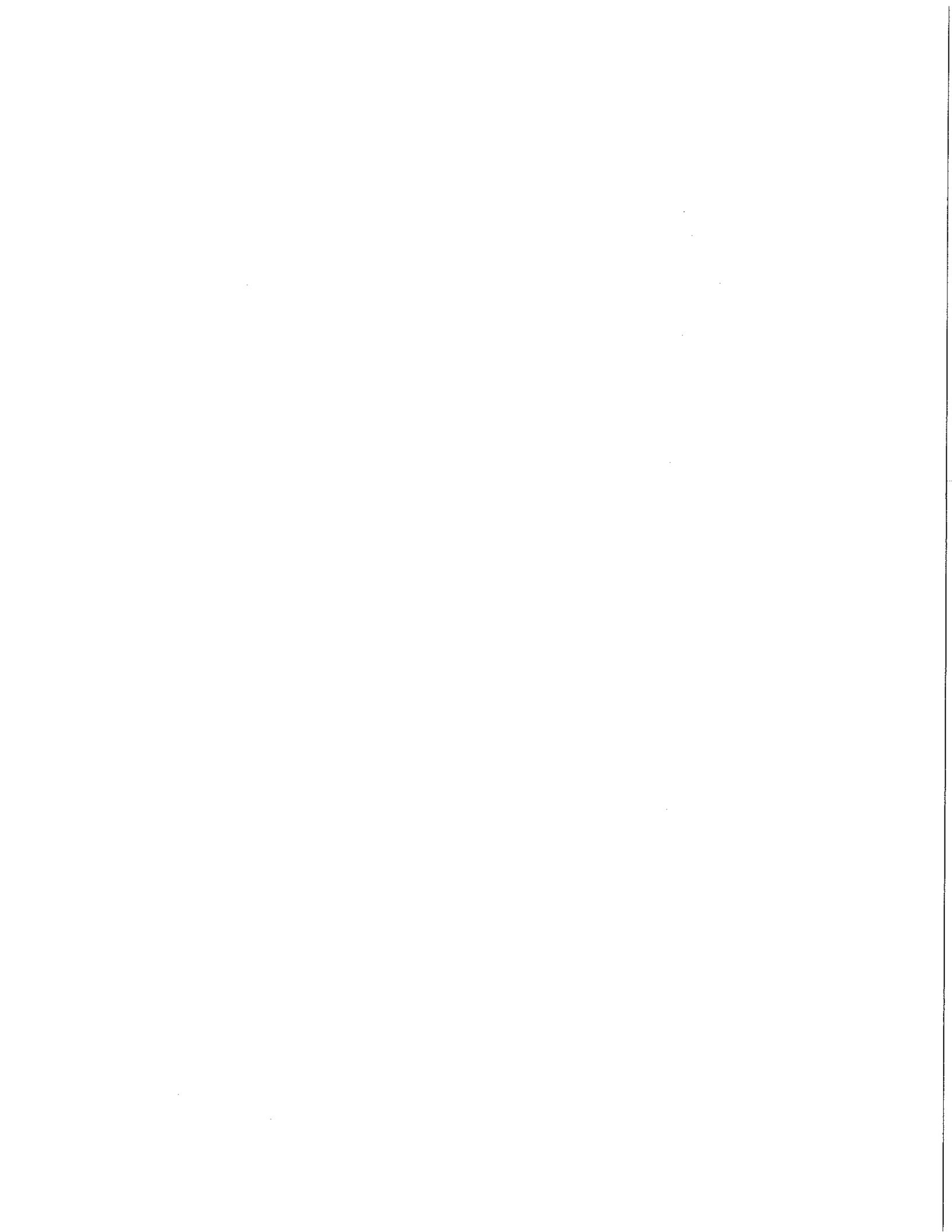
Minutes on Phone		
Nov		Dec
11 12 17		13 19
25 29		21 28
30 32		33 38
		47

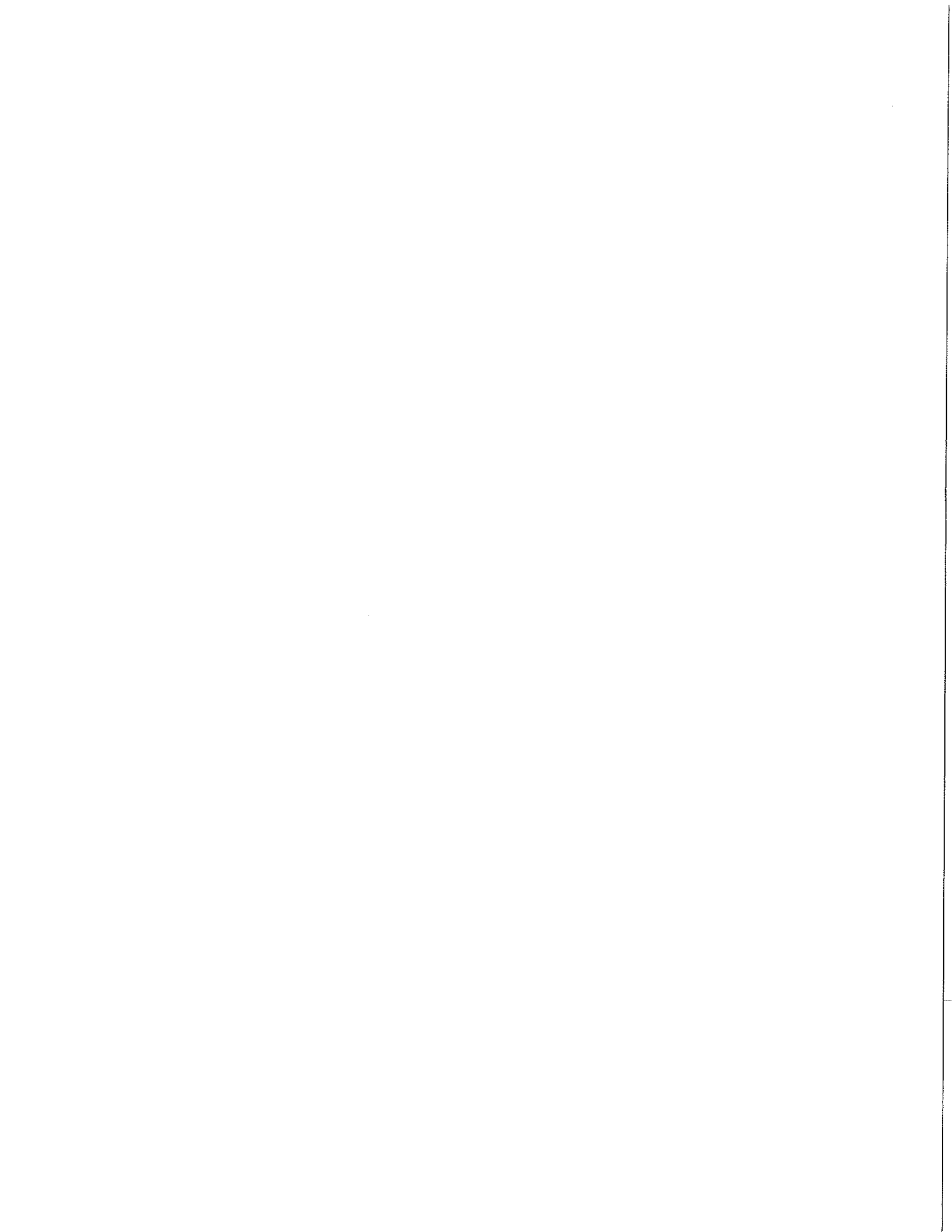
Use the following information to answer the question.

20	6	
21	3 8	
22	1 6 7 9	
23	0 2 4	Key: 23 4 = 234

157. What is the range of the data?

- a. 2.8
- b. 3
- c. 9
- d. 28





164. The table below shows the numbers of members in a health club for the first six years.

Years x	1	2	3	4	5	6
Members y	150	250	300	400	45	600

What is the correlation between x and y ?

- a. positive correlation
b. negative correlation
c. no correlation
d. cannot be determined
165. The height of a maple seedling that starts out at 2 feet tall can be found using the polynomial $2t^2 + 2$, where t is its age in years. How tall is the maple seedling after 2.5 years?
- a. 6.25 ft
b. 8.25 ft
c. 12.5 ft
d. 14.5 ft
166. An equilateral triangle has side lengths of $2x - 3$. Its perimeter is 51 inches. What is the value of x ?
- a. 7 in.
b. 10 in.
c. 24 in.
d. 27 in.

167. Simplify the polynomial $2(x + 3) - 4(x^2 - 3x)$.

- a. $-4x^2 + 14x + 6$
b. $-4x^2 - 10x + 6$
c. $-2x^2 + 12x + 6$
d. $-2x + 6 - 4x^2 + 12x$

168. Simplify the expression $(-2w^2)(4 - w)$.

- a. $-6w^2$
b. $2w^3 + 8w^2$
c. $2w^3 - 8w^2$
d. $6w^2$

169. Simplify the expression $3a^2(2a + 3b - b^2)$.

- a. $6a^3 + 3b - b^2$
b. $6a^2 + 9a^2b - 3a^2b^2$
c. $2a^3 + 3a^2b - a^2b^2$
d. $6a^3 + 9a^2b - 3a^2b^2$

170. The answer below is incorrect. Correct the error(s) made in multiplying the binomials and find the correct answer.

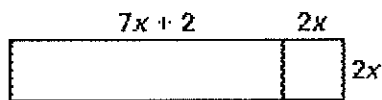
$$(2x - 2)(7 - x) 2x \cdot 7 + 2x \cdot x + (-2) \cdot 7 - 2 \cdot x$$

$$14x + 2x^2 - 14 - 2x$$

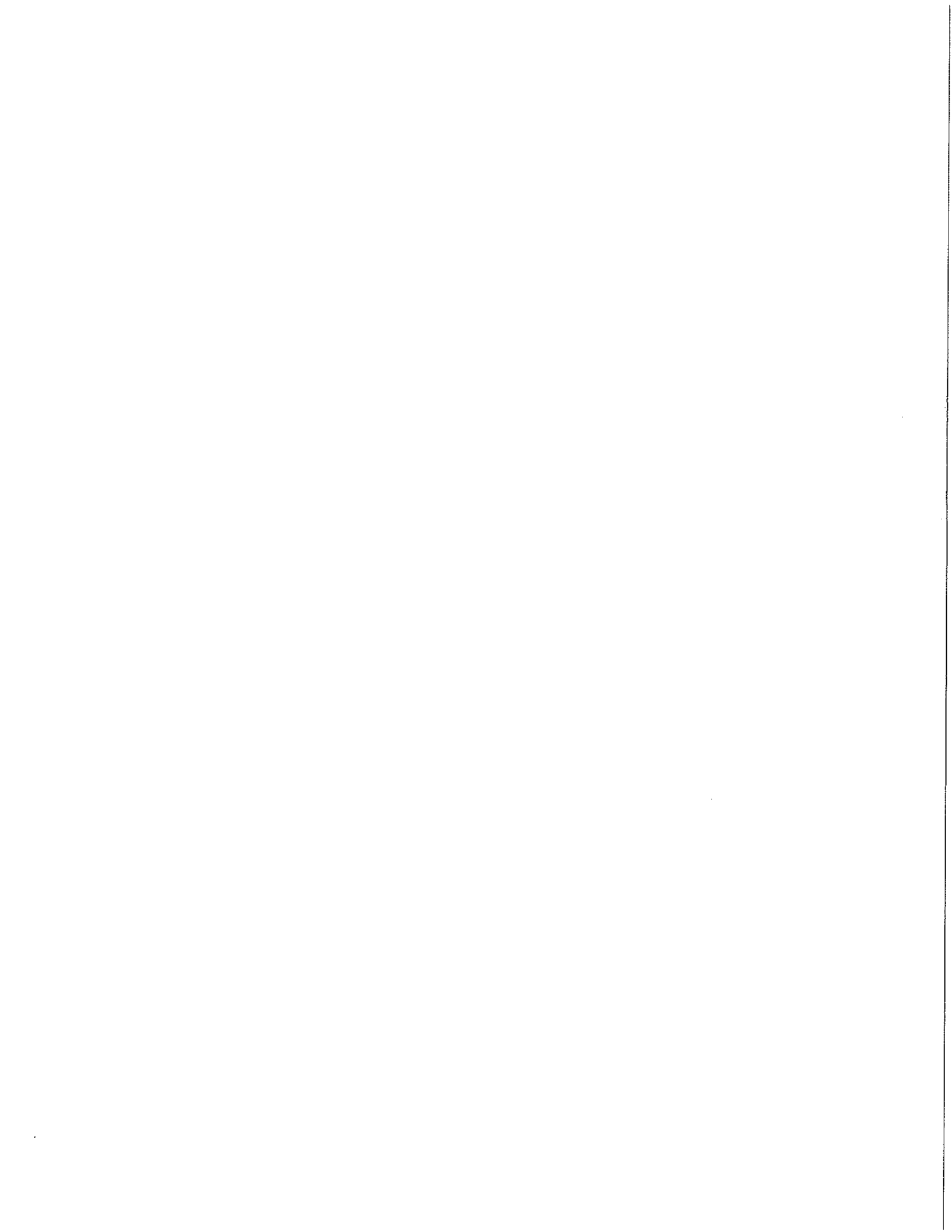
$$2x^2 + 12x - 14$$

- a. $-2x^2 + 14x - 16$
b. $-2x^2 + 16x - 14$
c. $-2x^2 + 16x + 14$
d. $2x^2 + 16x - 14$

171. Which product gives the area of the rectangle-square combination?



- a. $14x^2 + 4x$
b. $18x^2 + 4x$
c. $22x + 4$
d. $81x^2 + 36x + 4$



Summer 2008
Pre-Algebra
Answer Key

	38. C	80. A	122. B	164. A
	39. C	81. A	123. A	165. D
	40. B	82. A	124. D	166. B
	41. B	83. D	125. A	167. A
1. A	42. A	84. D	126. A	168. C
2. C	43. D	85. C	127. C	169. D
3. C	44. C	86. B	128. D	170. B
4. B	45. D	87. B	129. C	171. B
5. B	46. B	88. C	130. A	
6. B	47. D	89. A	131. B	
7. D	48. B	90. A	132. B	
8. D	49. C	91. C	133. D	
9. C	50. B	92. A	134. B	
10. D	51. C	93. B	135. A	
11. B	52. C	94. C	136. D	
12. A	53. A	95. D	137. C	
13. C	54. C	96. A	138. C	
14. C	55. B	97. B	139. A	
15. B	56. C	98. A	140. B	
16. C	57. B	99. A	141. A	
17. D	58. B	100. B	142. D	
18. A	59. B	101. C	143. B	
19. C	60. D	102. C	144. C	
20. D	61. C	103. C	145. A	
21. B	62. C	104. B	146. B	
22. B	63. A	105. B	147. B	
23. A	64. B	106. A	148. B	
24. C	65. B	107. C	149. B	
25. D	66. B	108. B	150. D	
26. C	67. B	109. B	151. A	
27. A	68. C	110. C	152. C	
28. B	69. C	111. B	153. B	
29. D	70. B	112. A	154. B	
30. D	71. B	113. C	155. B	
31. D	72. B	114. B	156. A	
32. C	73. C	115. C	157. D	
33. D	74. B	116. B	158. C	
34. D	75. A	117. D	159. B	
35. D	76. A	118. C	160. C	
36. A	77. A	119. C	161. B	
37. B	78. D	120. B	162. B	
	79. A	121. B	163. B	

