

Algebra I
Blizzard Bag #1

Directions: Complete the following review sheet from Chapters 1 to 3. Be sure to show your work. You will have 2 weeks to complete from the “Snow Day.” No Late work will be accepted.

Enjoy!

3 Standardized Test Practice

(Chapters 1-3)

SCORE _____

Part 1: Multiple Choice

Instructions: Fill in the appropriate circle for the best answer.

- The student council is selling candy bars to earn money towards their budget for the school dance. Identify the independent and dependent variables. (Lesson 1-6)

A I: student council;	C I: candy bars sold;	
D: money earned	D: money earned	
B I: budget;	D I: candy bars sold;	
D: school dance	D: school dance	1. (A) (B) (C) (D)
- Dion owns a delivery service. He charges his customers \$15.00 for each delivery. His expenses include \$7000 for the motorcycle he drives and \$0.42 for gasoline per trip. Which equation could Dion use to calculate his profit p for d deliveries? (Lesson 1-7)

F $p = 15 - 0.42d$	H $p = 14.58d - 7000$	
G $p = 7000 + 15d$	J $p = 0.42d + 7000$	2. (F) (G) (H) (J)
- Evaluate $60 \div 5 \cdot 6 - 3^2$. (Lesson 1-2)

A -7	B -4	C 63	D 4761	
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- Jim's new car has 150 miles on the odometer. He takes a trip and drives an average of m miles each day for three weeks. Which expression represents the mileage on Jim's car after his trip? (Lesson 2-4)

F $150m + 3$	G $150 + 3m$	H $150m + 21$	J $150 + 21m$	
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- Translate the sentence into an equation. (Lesson 2-1)
Five times the sum of m and t is as much as four times r .

A $5m + t = 4$	B $5m + t = r$	C $5(m + t) = 4r$	D $m + t = 5(4r)$	
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- Solve $8(x - 5) = 12(4x - 1) + 12$. (Lesson 2-4)

F $-\frac{7}{10}$	G $-\frac{5}{7}$	H -2	J -1	
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- Paul and Charlene are 420 miles apart. They start toward each other with Paul driving 16 miles per hour faster than Charlene. They meet in 5 hours. Find Charlene's speed. (Lesson 2-9)

A 34 mph	B 50 mph	C 40.4 mph	D 68 mph	
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- Determine which equation is a linear equation. (Lesson 3-1)

F $x^2 + y = 4$	G $x + y = 4$	H $xy = 4$	J $\frac{1}{x} + y = 4$	
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- If $f(x) = 7 - 2x$, find $f(3) + 6$. (Lesson 1-7)

A 11	B 7	C 14	D -11	
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- Chapa is beginning an exercise program that calls for 30 push-ups each day for the first week. Each week thereafter, she has to increase her push-ups by 2. Which week of her program will be the first one in which she will do 50 push-ups a day? (Lesson 3-5)

F 9th week	G 10th week	H 11th week	J 12th week	
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3 Standardized Test Practice *(continued)*

Part 3: Short Response

Instructions: Write your answer in the space provided.

19. Find the solution of $y + \frac{2}{3} = \frac{22}{15}$ if the replacement set is $\frac{2}{5}, \frac{3}{5}, \frac{4}{5}, 1, 1\frac{1}{5}$.
(Lesson 1-5)

19. _____

20. Simplify $5m + 8p + 3m + p$. (Lesson 1-3)

20. _____

21. Determine the slope of the line passing through (1, 4) and (3, -1).
(Lesson 3-3)

21. _____

22. Translate the following equation into a verbal sentence. $\frac{x}{4} - y = -2\left(\frac{x}{y}\right)$
(Lesson 2-1)

22. _____

23. Find the discounted price. clock: \$15.00
discount: 15% (Lesson 2-7)

23. _____

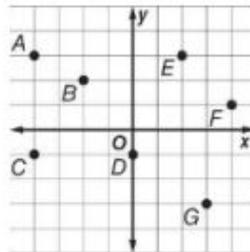
24. Solve $-7x + 23 = 37$. (Lesson 2-3)

24. _____

25. Use cross products to determine whether the ratios $\frac{4}{7}$ and $\frac{11}{15}$ form a proportion. Write *yes* or *no*. (Lesson 2-6)

25. _____

For Questions 26 and 27, use the graph.



26. Express the relation as a set of ordered pairs. Then determine the domain and range. (Lesson 1-6)

26. _____

27. Determine whether the relation is a function. (Lesson 1-7)

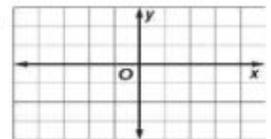
27. _____

28. Find the x -intercept of the graph of $4x = 5 + y$. (Lesson 3-1)

28. _____

29. Graph $2x - 3y = 6$. (Lesson 3-1)

29. _____



30. The table below shows the average amount of gas Therese's truck uses depending on how many miles she drives.

Gallons of Gasoline	1	2	3	4	5
Miles Driven	18	36	54	72	90

30a. _____

a. Does the table of values represent a function? Explain. (Lesson 3-6)

b. Is this a proportional relationship? Explain. (Lesson 3-6)

30b. _____