

5th Grade Math - Love
Blizzard Bag #1

Performance Task

A Cross-country Trip

The Perez family is driving from New York City to Los Angeles, but they need to drive through Chicago first to see family. They are trying to plan how many days it will take them to make the trip. Research the distance from New York, NY to Chicago, IL and the distance from Chicago to Los Angeles, CA.

Write your answers on another piece of paper. Show all your work to receive full credit.

Part A

Fill in the table from your research, and round the distances to the nearest hundred miles. Find the total distance the family will travel.

| | |
|-----------------------------------|--|
| Distance from New York to Chicago | |
| Distance from Chicago to LA | |
| Total | |

Part B

The Perez car will travel 65 miles per hour. If they plan to drive 8 hours per day, how many miles can they travel in one day? Show your work.

Part C

Find the number of days it will take to drive to Chicago. Find the number of days it will take to drive to Los Angeles. If the Perez family plans to stay in Chicago for 3 days, find the total length of the trip. Show your work.

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Performance Task

Apple Picking

The Ramirez family is picking apples at an orchard that sells them by the peck. The family came home with 5.25 pecks of apples. Research how many gallons are in a peck.

Write your answers on another piece of paper. Show all your work to receive full credit.

Part A

How many gallons are in a peck? Use this information to figure out how many gallons of apples the Ramirez family bought.

Part B

The family gave 1.5 pecks away to a relative, and gave some more to their neighbors. There are 2.5 pecks left. How many pecks did they give to their neighbor? Explain.

Part C

Each peck of apples cost \$5.40. How much did the Ramirez family spend on apples? Explain.

Part D

With the 2.5 pecks of apples that the Ramirez family has left, Mrs. Ramirez intends to make pies. One pie takes 0.25 of a peck. How many pies can she make? Explain.

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Blizzard Bag #3

Performance Task

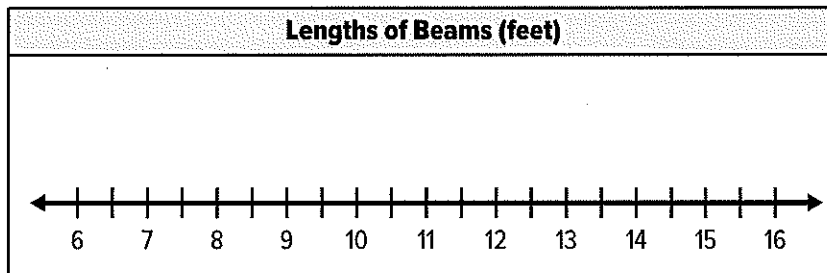
Building a Corn Bin

An engineer is preparing plans for building a structure to hold spare corn for a farmer. The structure will be a rectangular prism that is $12\frac{1}{2}$ feet wide, 16 feet long, and $6\frac{1}{2}$ feet tall.

Write your answers on another piece of paper. Show all your work to receive full credit.

Part A

The main structure will be built with solid steel beams. Determine how many beams of each length the engineer will need for the frame, and plot the lengths on a line plot.



Part B

Beams only come in lengths of 8 feet, 15 feet, and 20 feet. The engineer will cut the lengths he needs for the bin from these sizes. Each beam can only be cut one time. Find the length of beam in inches that will be left over after the engineer makes his cuts. Show your calculation.

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Performance Task (continued)

Part C

Find the volume of the bin in cubic feet. Show your calculation.

Part D

Suppose the farmer changes the project requirements and wants the bin to be 25 feet wide instead of $12\frac{1}{2}$ feet wide. How will the volume of the new bin compare to the volume of the original bin? Explain your reasoning.

Chapter 1 Performance Task

Road Trip

Miko's family is going on a trip from their hometown of Castle City, Montana, to Helena, Montana. They plan to drive the entire distance in one day.

Write your answers on another piece of paper. Show all your work to receive full credit.

Part A

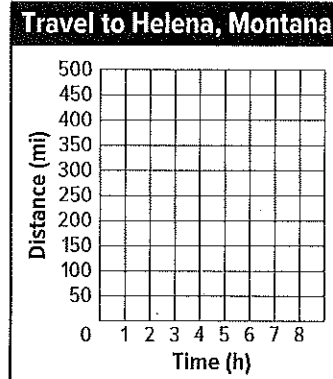
The family leaves home at 9 A.M. At that point, the car's odometer reads 31,247. They drive until 12:30 P.M., when they stop for lunch. At the restaurant, the odometer reads 31,492. What is the unit rate of speed in miles per hour?

Part B

At 1 P.M. the family resumes their trip, and they reach Helena at 5 P.M. The total distance from the family's home to Helena is 485 miles. Including the 30-minute lunch stop, what is the average speed over the entire trip?

Part C

Plot these four points: the start point, the point at which the family stopped for lunch, the point at which they resumed their trip, and the point at which they reached Helena. Connect the points with line segments. Label each point with its coordinates.



Part D

Miko's family drove at a constant speed as they left home and traveled to the restaurant where they stopped for lunch. Does the relationship between hours elapsed x and distance traveled y represent a proportional relationship? Explain why or why not.

Part E

Several other families also made the trip from Castle City to Helena. Complete the table so that the relationship of hours driven to distance traveled is proportional for each family. The unit rate for each family may not be the same. Explain how you solved the problem.

| | Distance Traveled (mi) | | | | |
|----------|------------------------|------------------|-----|-----|------------------|
| | $2\frac{1}{2}$ h | $3\frac{3}{4}$ h | | 7 h | $9\frac{1}{4}$ h |
| Jackson | 150 | | 360 | | |
| Townsend | | | 408 | | |
| White | | | 444 | | |

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Chapter 2 Performance Task

Kyle Prices the Inventory

Kyle is the assistant manager at Digital Age. He is in charge of inventory and pricing for products such as TVs, tablets, and MP3 players. The manager has informed Kyle that a recent shipment has 120 items. Three fifths of the items are tablets, 15% of the items are TVs, and the rest are MP3 players.

Write your answers on another piece of paper. Show all your work to receive full credit.

Part A

To track the inventory, Kyle needs to know exactly how many items are in the store and how many were delivered. Find the quantity of each electronic product in the recent shipment.

Part B

Kyle must mark up the cost of the products to determine the prices that customers will pay. Complete the table to find the selling price of each product.

| Product | Cost | Markup | Selling Price |
|----------------|-------|--------|---------------|
| Tablet | \$300 | 40% | |
| Flat screen TV | \$460 | 20% | |
| MP3 player | \$120 | 35% | |

Part C

Leah wants a tablet and Darnell wants an MP3 player. The sales tax in their city is 9%. Leah has saved \$350. Darnell has saved \$140. Will each person be able to buy the item that he or she wants? Explain.

SALE

Tablets 20% off the selling price!

MP3 players 25% off the selling price!

Part D

Kyle receives a bonus for days on which the store makes \$1,000 profit on the sales, before tax, of these three items. On one day, the store sold 9 TVs at the regular selling price and 5 tablets at the discounted price. Did Kyle receive a bonus for that day? Justify your answer.

Part E

A few months later, Kyle was responsible for turning in an inventory-cost sheet that shows items sold, cost, and selling price, as well as profit for the week. However, he walked outside with the cost sheet in hand while it was raining, and some of the data were smudged. Does Kyle have enough data to fill in the missing information? If so, complete the inventory cost chart.

| Product | Cost | Markup | Selling Price | Profit per Item | Items Sold | Total Profit |
|----------------|-------|--------|---------------|-----------------|------------|--------------|
| Tablet | \$250 | 15% | | | 4 | |
| Flat-screen TV | \$600 | | \$750 | \$150 | | \$3,150 |
| MP3 player | | 40% | | | 18 | |
| Totals | N/A | N/A | N/A | N/A | 43 | \$3,948 |

Chapter 5 Performance Task

Revenue, Wages, and Salaries

Kai is a seventh grader who received an assignment in her business class. She has to interview four businesses and report back about how they make profit, collect revenue, and pay their employees.

Write your answers on another piece of paper. Show all your work to receive full credit.

Part A

An electronics store makes a profit in two different ways. One way is to mark up the store's cost to purchase an item by 34.8% to get the selling price. The second way is to charge \$32 an hour for repairs and software installation. Write an expression that represents how the company makes a profit. Define the variables you use. The store paid \$400 each for TVs. One customer bought a TV and later brought it back for a repair that took $2\frac{1}{4}$ hours. How much profit did the store make on that one TV?

Part B

Employees that repair store-bought items and install software are paid \$20 an hour and earn a 1% raise on their hourly rate for every year that they work. Managers are paid a weekly salary of \$800 and earn a 2% increase on their weekly rate for every year that they work. Write expressions for the earnings of a repairperson and a manager when they start the job. Write and simplify expressions for the earnings of each employee after working 1 year. After working 2 years at the store, a repairperson worked 37 hours in one week and a manager worked 3 weeks in one month. How much money did each earn?

Part C

An athletic club earns money three different ways. They charge \$40 each for p personal lessons, \$25 each for c classes, and a monthly membership fee m . Write an expression that represents the total amount of money the club makes from one member in one month.

The table represents the membership fees for a family. The first person in the family pays full price. To encourage more members, the club charges each additional person in the family 60% of the first person's fee. Write an expression for the total monthly fee for n family members. Simplify and explain the expression. Find the total annual membership fee for a family of 5.

| | | | | |
|--|------------|----------------|-------------------------|-------------------------|
| Number of Members in Family | Individual | 2 | 3 | 4 |
| Total Monthly Membership Fee (\$) | 46 | $46 + 46(0.6)$ | $46 + 46(0.6) \times 2$ | $46 + 46(0.6) \times 3$ |

Part D

Instructors at the athletic club are paid a rate of \$12.50 an hour and are also paid \$20 for each lesson or class that they teach. Write an expression that represents how much instructors are paid. Define the variables you use. An aerobics instructor works 32 hours and teaches 10 classes every week. How much does she earn for the year?

Part E

A grocery store tracks the number of customers who come into the store. The table shows the cumulative number of customers who had been in the store by the end of each hour. Complete the table to show the number of customers after 5 hours.

| | | | | | |
|----------------------------|----|----|----|----|---|
| End of Hour | 1 | 2 | 3 | 4 | 5 |
| Number of Customers | 21 | 39 | 57 | 75 | |

Assume that the pattern in the table continues. Write an expression that represents the number of customers who had been in the store by the end of each hour. Find the total number of customers who had been in the store that day. Store hours are 8 A.M. to 9 P.M. The manager estimates that customers spent an average of \$45. How much money did the store collect that day?

Blizzard Bag Instructions from Mrs. Love's 6th and 5th grade ELA classes

For **Blizzard Bag #1**, you need to use News ELA.com or another news article. Please print out the news article that you use and return it with the completed worksheet.

For **Blizzard Bag #2** you need to read the poem "A Winter Morning." After reading the poem analyze the poem by answering the three questions (A1, A2 & A3). Please answer those questions on a separate sheet of paper. Remember to use R3D2 when responding to a question. I will also be looking for complete sentences and proper PUGS (Punctuation, Usage, Grammar and Spelling)

For **Blizzard Bag #3**, you need to use News ELA.com or another news article. Please print out the news article that you use and return it with the completed worksheet.

Date: _____

Name: _____



Article Read: _____

Fill in the following boxes:

Summary of Articles
Write a short summary of the article.
(a brief statement of the main points)

A rectangular box with a decorative border of small circles. The text is centered within the box.

I Have a Question
Write down at least one question that you have while reading the article.

A rectangular box with a decorative border of small circles. The text is centered within the box.

Text Features
Write down different nonfiction text features that your article had.
How did they help you understand the text?

A rectangular box with a decorative border of small circles. The text is centered within the box.

Your Thoughts
Write down what your thoughts were about the article. Did you agree with the author? Why or why not?

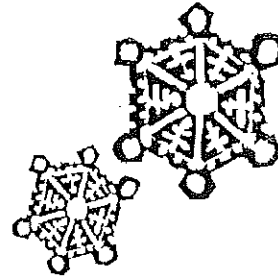
A rectangular box with a decorative border of large, overlapping circles. The text is centered within the box.

Main Idea
Write down the main idea of your article.
How do you know? Give 3 supporting reasons.

A rectangular box with a decorative border of small circles. The text is centered within the box.

Name: Love-ELA-6th+5th-Blizzard Bag 2

Date: _____



A Winter Morning

The morning is silent,
Through the fogged windows you can see the snowflakes falling,
Returning to the earth from their summer home in the heavens,
They land on silver barrettes with a whispered clink.

The frost covered grass is like a gloved hand, of a young lady,
Thin, and protected from the wind.

All the plump pumpkins are replaced by towering evergreens,
Waiting to be cut down and dressed royally,
Displayêd as a piece of art.

People snuggle under downy comforters,
Not dâring to leave the warmth of their beds for the chill of the room.

Sleek, golden handbells are performers for all,
Singing and dancing with their human partners,
They bring joy and spirit to the cold ears of everyone.

Experience promises us this time every year,
Faith makes us believe it will always return.

As red fires crackle and bare trees sleep,
Winter has returned.

By Kathryn E. Tickner

Honorable Mention: Poetry, Grades 6-8

Reflections: An Anthology of Award-Winning Works

1998-1999-Talent Search for Promising Student Authors

Name: Love-Blizzard Bag #2 Date: _____

Consequences and Implications

A generalization is a general statement that applies to a group of things. Make at least one generalization about each of your groups from Activity A2.

Cause and Effect

Create lists from Activity A1. Group the details by their characteristics and create a title for each group.

Sequencing

Make a list of examples from the poem that let the reader know it is winter time.

A3

A2

A1

A WINTER MORNING

Date: _____

Name: _____



Article Read: _____

Fill in the following boxes:

Summary of Articles
Write a short summary of the article.
(a brief statement of the main points)

I Have a Question
Write down at least one question that you have while reading the article.

Text Features
Write down different nonfiction text features that your article had.
How did they help you understand the text?

Your Thoughts
Write down what your thoughts were about the article. Did you agree with the author? Why or why not?

Main Idea
Write down the main idea of your article.
How do you know? Give 3 supporting reasons.