

<p><b>Build a number between 0.0 and 0.5</b></p>	<p><b>Build a number between zero and one-half</b></p>
<p><b>Build a number between one-fourth and three-fourths</b></p>	<p><b>Build a number less than <math>\frac{4}{5}</math></b></p>
<p><b>Build a number greater than <math>\frac{3}{4}</math></b></p>	<p><b>Build a number less than <math>\frac{1}{2}</math></b></p>
<p><b>Build a number between <math>\frac{1}{3}</math> and <math>\frac{2}{3}</math></b></p>	<p><b>Build a number between <math>\frac{1}{4}</math> and <math>\frac{3}{4}</math></b></p>
<p><b>Build a number between <math>\frac{2}{5}</math> and <math>\frac{6}{5}</math></b></p>	<p><b>Build a number between <math>\frac{3}{4}</math> and <math>\frac{4}{4}</math></b></p>

<p><b>Build a number between <math>\frac{1}{4}</math> and <math>\frac{1}{2}</math></b></p>	<p><b>Build a number with 2 in tenths place</b></p>
<p><b>Build a number with 5 in tenths place</b></p>	<p><b>Build a number with 3 in hundredths place</b></p>
<p><b>Build a number greater than the value of two dimes</b></p>	<p><b>Build a number greater than the value of three pennies</b></p>
<p><b>Build a number less than the value of a quarter and two dimes</b></p>	<p><b>Build a number greater than the value of three nickels and one penny</b></p>
<p><b>Build a number between the value of a quarter and two dimes</b></p>	<p><b>Build a number be- tween the value of three nickels and one dime</b></p>

<b>Build a number with a numerator two less than its denominator</b>	<b>Build a number with a numerator four more than its denominator</b>
<b>Build a number with a numerator three less than its denominator</b>	<b>Build a number with a numerator one more than its denominator</b>
<b>Build a number with a numerator less than its denominator</b>	<b>Build a number with a numerator more than its denominator</b>
<b>Build a number with a numerator one-third of its denominator</b>	<b>Build a number with a numerator half of its denominator</b>
<b>Build your favorite fraction</b>	<b>Build a number with a numerator equal to its denominator</b>

<p>(1) <i>Build a number that fits your clue.</i></p> <p>(2) <i>Tell your group why you built that number <u>and</u> why it fits the clue.</i></p> <p>(3) <i>As a <u>team</u>, write your numbers in ascending order.</i></p> <p>(4) <i>Now, as a team, build a 5th number fitting all the clues. Represent the 5th number in at least four different ways. These might include</i>  <i>a decimal,</i>  <i>a fraction,</i>  <i>a model,</i>  <i>words,</i>  <i>standard or expanded form.</i></p> <p><i>If this is <u>not</u> possible tell why.</i></p>	<p>(1) <i>Build a number that fits your clue.</i></p> <p>(2) <i>Tell your group why you built that number <u>and</u> why it fits the clue.</i></p> <p>(3) <i>As a <u>team</u>, write your numbers in ascending order.</i></p> <p>(4) <i>Now, as a team, build a 5th number fitting all the clues. Represent the 5th number in at least four different ways. These might include</i>  <i>a decimal,</i>  <i>a fraction,</i>  <i>a model,</i>  <i>words,</i>  <i>standard or expanded form.</i></p> <p><i>If this is <u>not</u> possible tell why.</i></p>
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# Build-a-Number

Names:

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Team # \_\_\_\_\_

**Our numbers in ascending order:**

**Our 5th number:**



**Our numbers in ascending order:**

**Our 5th number:**

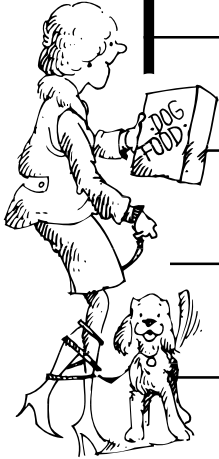


**Our numbers in ascending order:**

**Our 5th number:**



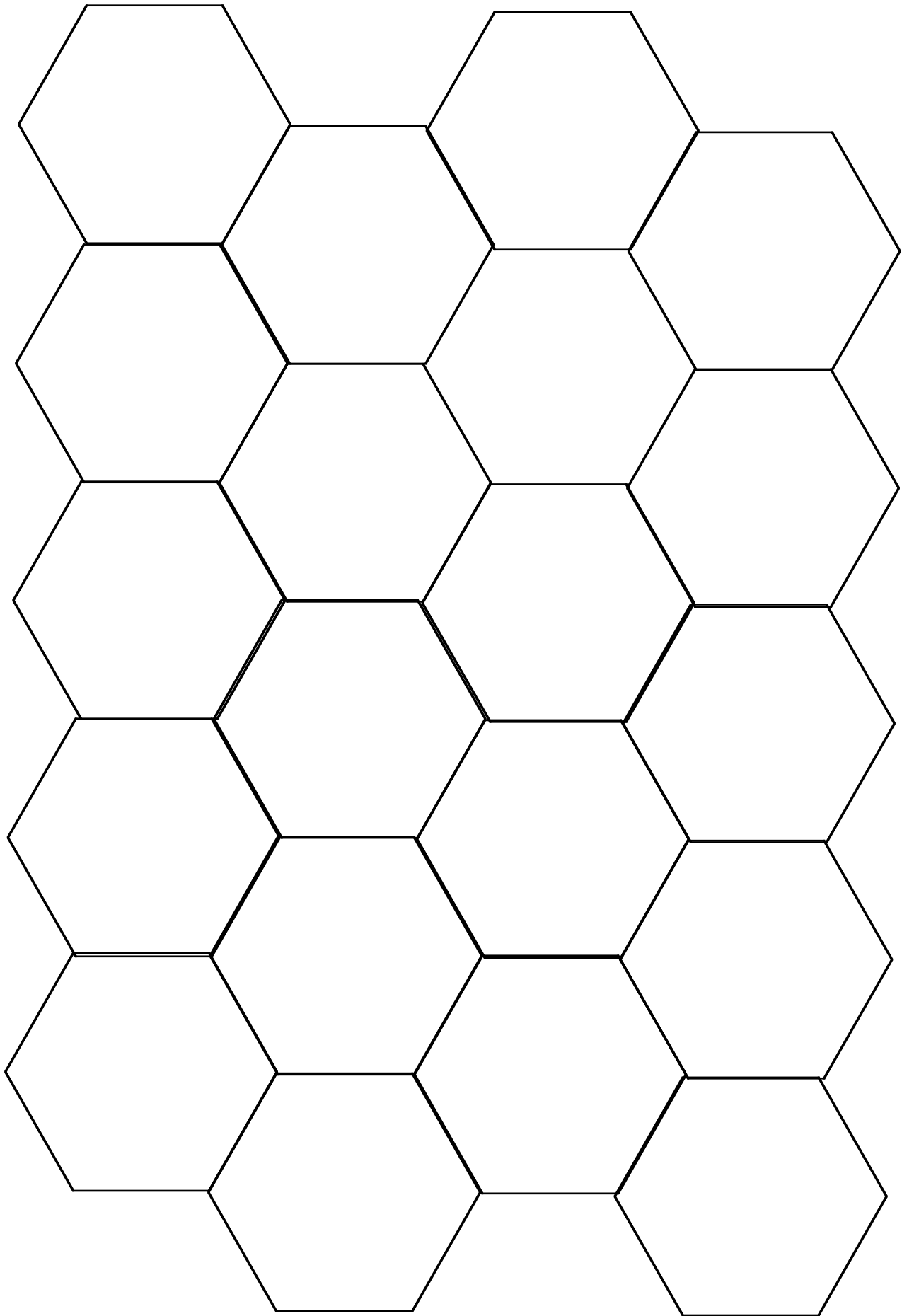
Comparison Shopping Record Sheet Name \_\_\_\_\_



Item	Store Brand Cost	Name Brand Cost	Difference
28 oz. smooth peanut butter			
24 oz. whole wheat bread			
1 lb. butter			
15.25 oz. can fruit cocktail			
1 lb. hot dogs			
1/2 gallon ice cream			
2 liter bottle ginger ale			
454 g elbow macaroni			
1 doz. eggs			
<b>Totals</b>			

**Directions:**

1. Take the shopping list to a supermarket.
2. Add four more items of your choice
3. Write the prices for store brand items and name brand items.
4. Compute the differences and record.



# Hit the Target!

Name \_\_\_\_\_



If you start with 15 and repeatedly add 2.5, will you hit the target 35 or 42? Choose one.

Enter  $\boxed{15}$   $\boxed{+}$   $\boxed{2.5}$  and  $\boxed{=}$   $\boxed{=}$   $\boxed{=}$  . . . Which of the target numbers appears?

Now try the problems below. Estimate. Which target will be hit? Check using the constant function on your calculator.

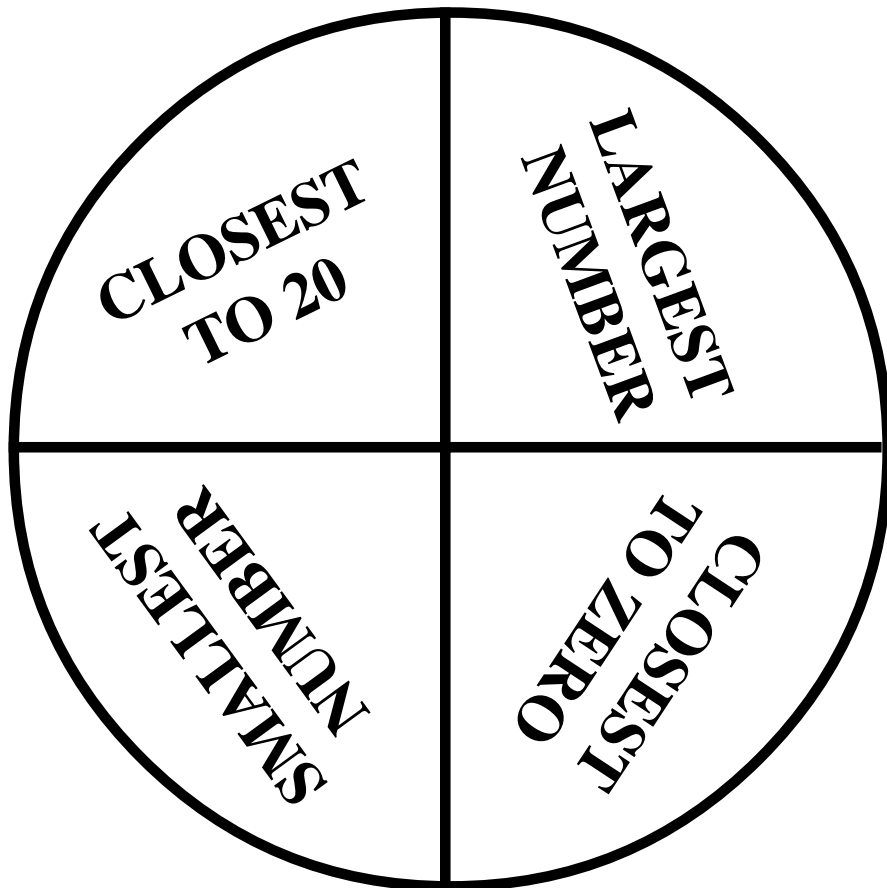
	Start	Rule	Targets	Estimate	Solution
(1)	9.2	+ 0.5	29.5 or 20.7	_____	_____
(2)	50	-0.25	40.75 or 45.15	_____	_____
(3)	3.2	+1.8	10 or 5	_____	_____
(4)	85	-7	37 or 50	_____	_____
(5)	6.3	+2.5	28.8 or 28.3	_____	_____
(6)	100	-7.2	78.5 or 71.2	_____	_____

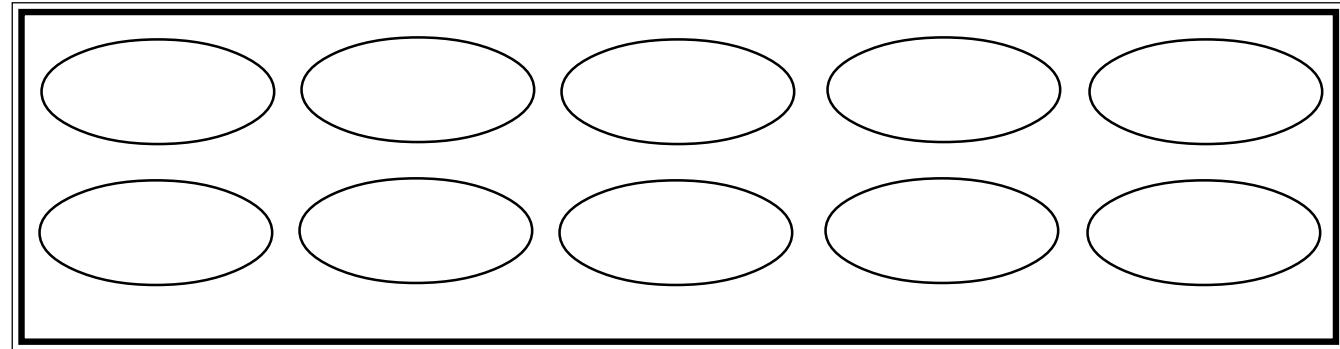
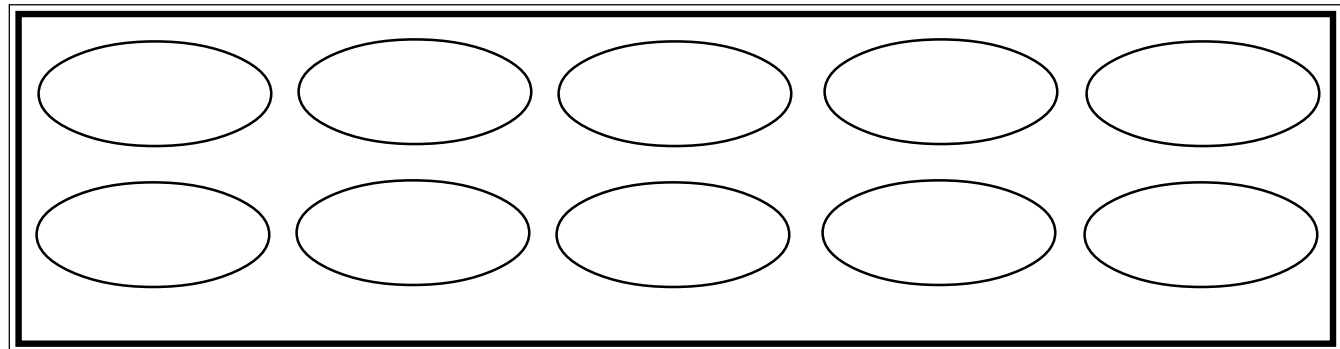
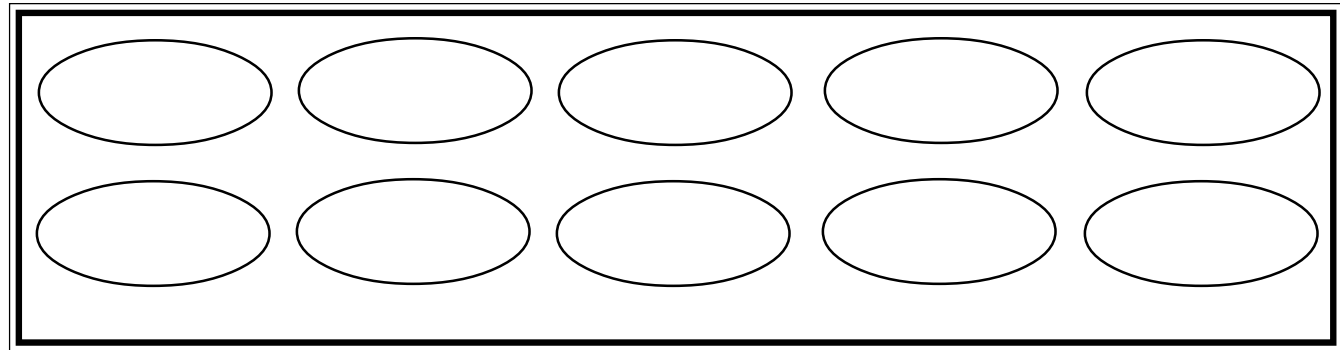
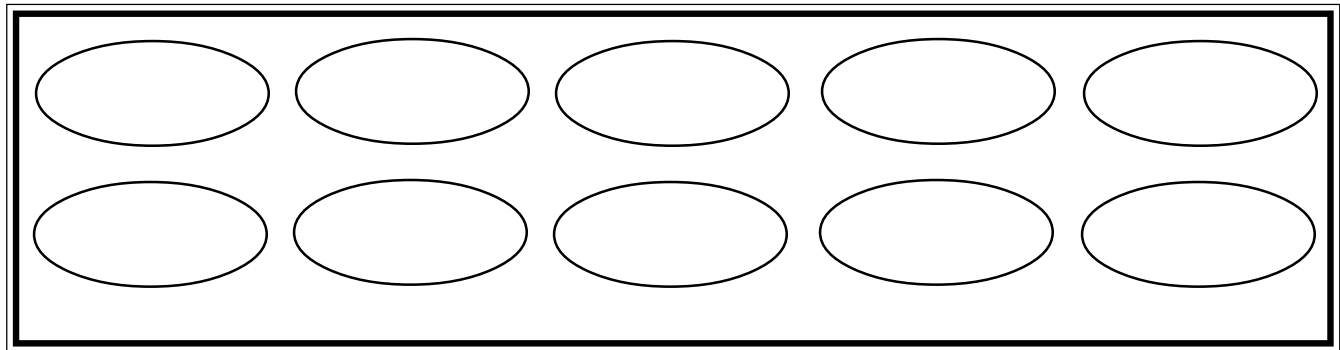
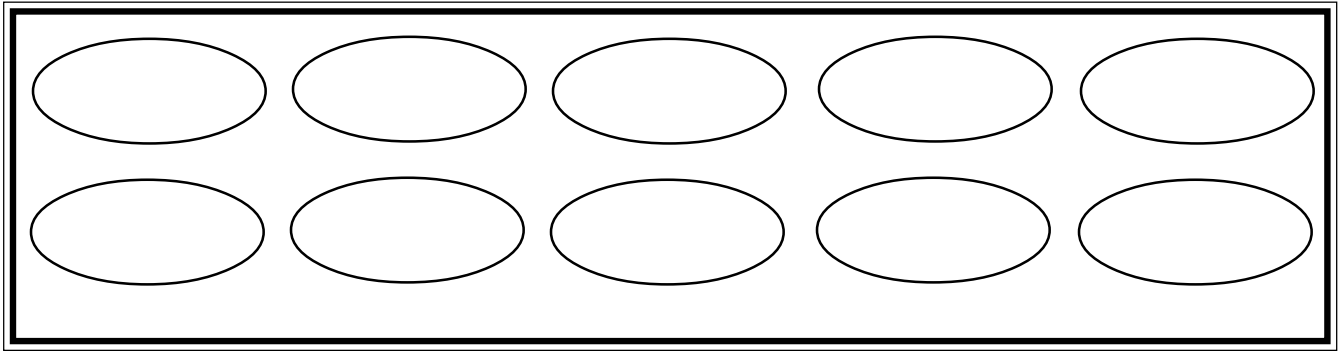
Make up three target problems. Write the correct answers on the back of this sheet. Give your problems to another student to try.

	Start	Rule	Targets	Estimate	Solution
(1)	_____	_____	_____	_____	_____
(2)	_____	_____	_____	_____	_____
(3)	_____	_____	_____	_____	_____

$$\begin{array}{r} \phantom{+} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{+} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{-} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{-} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \hline \end{array}$$





# STOCK MARKET GUIDELINES

1. You will begin with \$10 000.00.
2. With your \$10 000.00, you will purchase five stocks and spend at least \$9 900.00. Complete the **PORTFOLIO SHEET** at the same time you fill in the **PURCHASE SHEET**. This should be completed on the first day of the activity.
3. Directions for purchasing stocks:
  - A. Decide which companies you wish to invest in.
  - B. Decide how many shares you wish to purchase. *Hints:* It is usually easier to purchase stocks in multiples of ten. Since you are spending close to \$10 000.00 on five stocks aim to spend about \$2 000.00 on each stock.
  - C. In **Column 1** enter the NYSE symbol for the stock.
  - D. In **Column 2** enter the price per share from the closing price column in the newspaper. This will be the price for the stock yesterday.
  - E. In **Column 3** enter the number of shares you have decided to purchase.
  - F. In **Column 4** enter the total cost of these stocks. (Column 2 x Column 3)
  - G. In **Column 5** enter the previous balance. This is the last figure in Column 6. It will be \$00.00 for your first day.
  - H. In **Column 6** enter the sum of your balances to arrive at an ending balance. This is the sum of columns 4 and 5.
4. Directions for completing the daily **TRANSACTIONS SHEET**.
  - A. Complete the first two columns.
  - B. Refer to the newspaper for the change listed for your stocks. Be sure to note if it is a + or -. Did the stock increase or decrease? The entry for **Column 3** is this amount.
  - C. The entry for **Column 4** is the number of shares you purchased on the first day.
  - D. The entry for **Column 5** is your profit or loss. Calculate this amount by multiplying the figure in Column 3 by the amount in Column 4. Don't forget the + or - sign! If you have a profit it will be positive, a loss will be negative. Note: not all calculators register a + sign for positive numbers i.e. profits. They will, however, show a negative (-) sign for losses.
  - E. Complete steps A- D for each stock purchased.
  - F. The entry for **Column 6** is the ending balance ( Column 7) from the previous day's transaction. For the first day only it will be Column 4 from the **PURCHASE SHEET**.
  - G. The entry for **Column 7** is Column 6 plus Column 5. Don't forget to enter the - sign if their is one from Column 5. This sum is the ending balance for today and the beginning balance (Column 6) for tomorrow.

# PURCHASE SHEET

DATE \_\_\_ / \_\_\_ / \_\_\_

#1 NYSE Symbol	#2 Price per Share	#3 Number of Shares	#4 Initial Value
(1)			
(2)			
(3)			
(4)			
(5)			

Team: \_\_\_\_\_  
\_\_\_\_\_

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# FINAL DAY OF TRADING SHEET

DATE \_\_\_ / \_\_\_ / \_\_\_

(1)			
(2)			
(3)			
(4)			
(5)			

# PORTFOLIO SHEET

This information should be the first page of your stock portfolio.

I. A. The name of this investment group is:

\_\_\_\_\_

B. The members of this group are:

\_\_\_\_\_

\_\_\_\_\_

C. This account was opened: \_\_\_\_/\_\_\_\_/\_\_\_\_

II. The five stocks purchased are:

A. Company #1: \_\_\_\_\_

NYSE Symbol: \_\_\_\_\_

Reason for purchase: \_\_\_\_\_

\_\_\_\_\_

B. Company #2: \_\_\_\_\_

NYSE Symbol: \_\_\_\_\_

Reason for purchase: \_\_\_\_\_

\_\_\_\_\_

C. Company #3: \_\_\_\_\_

NYSE Symbol: \_\_\_\_\_

Reason for purchase: \_\_\_\_\_

\_\_\_\_\_

D. Company #4: \_\_\_\_\_

NYSE Symbol: \_\_\_\_\_

Reason for purchase: \_\_\_\_\_

\_\_\_\_\_

E. Company #5: \_\_\_\_\_

NYSE Symbol: \_\_\_\_\_

Reason for purchase: \_\_\_\_\_

\_\_\_\_\_

# TRANSACTION SHEET

#1 Date	#2 Stock Symbol	#3 Change + or -	#4 No. of shares	#5 Total Change	#6 Beginning Balance	#1 Ending Balance

#1 Date	#2 Stock Symbol	#3 Change + or -	#4 No. of shares	#5 Total Change	#6 Beginning Balance	#1 Ending Balance

#1 Date	#2 Stock Symbol	#3 Change + or -	#4 No. of shares	#5 Total Change	#6 Beginning Balance	#1 Ending Balance

# DIZZY DIVISION

$$\begin{array}{r} 779 \\ 8 \overline{) 6,334} \\ \underline{56} \\ 63 \\ \underline{56} \\ 74 \\ \underline{74} \\ 0 \end{array}$$

$$\begin{array}{r} 24 \text{ r } 5 \\ 20 \overline{) 4,098} \\ \underline{40} \\ 98 \\ \underline{80} \\ 18 \\ \underline{10} \\ 8 \end{array}$$

$$\begin{array}{r} 964 \text{ r } 5 \\ 6 \overline{) 5,809} \\ \underline{54} \\ 40 \\ \underline{38} \\ 29 \\ \underline{24} \\ 5 \end{array}$$

$$\begin{array}{r} 3007 \text{ r } 1 \\ 9 \overline{) 2,764} \\ \underline{27} \\ 06 \\ \underline{0} \\ 64 \\ \underline{63} \\ 1 \end{array}$$



$$\begin{array}{r} 180 \\ 9 \overline{) 972} \\ \underline{9} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

$$\begin{array}{r} 59 \\ 8 \overline{) 4,072} \\ \underline{40} \\ 07 \\ \underline{0} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

$$\begin{array}{r} 961 \text{ r } 5 \\ 7 \overline{) 6,831} \\ \underline{64} \\ 43 \\ \underline{42} \\ 11 \\ \underline{7} \\ 5 \end{array}$$

$$\begin{array}{r} 854 \text{ r } 1 \\ 5 \overline{) 4,281} \\ \underline{40} \\ 28 \\ \underline{25} \\ 21 \\ \underline{20} \\ 1 \end{array}$$

# VIDEO VARSITY STORE

The video varsity store has approximately 20,000 tapes in its stock, including games. When the store purchases new releases, the manager reports the cost is \$99. However, some tapes are classic films produced for sale at either \$19.95 or \$16.95. A few used tapes sell for \$9.50 each.

## VIDEO RUNNING TIME

<b>ALADDIN</b>	<b>90 MINUTES</b>
<b>ALL DOGS GO TO HEAVEN</b>	<b>93 MINUTES</b>
<b>FREE WILLEY</b>	<b>112 MINUTES</b>
<b>FOX AND THE HOUND</b>	<b>83 MINUTES</b>
<b>HOME ALONE 2</b>	<b>120 MINUTES</b>
<b>ROOKIE OF THE YEAR</b>	<b>103 MINUTES</b>
<b>SECRETGARDEN</b>	<b>102 MINUTES</b>
<b>SOUND OF MUSIC</b>	<b>173 MINUTES</b>
<b>STAR TREK III</b>	<b>98 MINUTES</b>
<b>STAR WARS</b>	<b>108 MINUTES</b>



## RENTAL FEES

- \$3.49 for 3 days
- \$2.00 per day late fee
- Tuesdays 2 for the price of 1

Find the running times of your favorite films.  
Add six more titles and running times to this list.

1.

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2.

---

3.

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4.

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5.

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6.

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# VIDEO INVESTIGATIONS

What is the cost of renting five movies Tuesday night?

If you rent two films for the week-end, and turn one in on time and the other is one day late, what is the cost?

The store bought eight copies of each new release this week and sold ten used tapes. If there were six new releases this week, what is the balance after these transactions?

If you rent three videos to show at a sleep-over, can you watch them all between 10:00 pm and 2:30 am? Explain.

If the store rents half of its inventory this week-end, how much do they take in?

What is the average running time of the films at the Video Varsity Store?



**Write a question using information from the Video Varsity Store.**

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**1**

**2**

**3**

**4**

**5**

**6**

**8**

**7**

**9**

**10**

**11**

**12**

**13**

**14**

**15**

**16**

**17**

**18**

**19**

**20**

**21**

**22**

**23**

**24**

**25**

**21**

**22**

**23**

**24**

**25**

## YOU BE THE JUDGE!

<p>Three students worked on their homework assignments. John read his library book for one-third of an hour. Jim completed his math problems in one-sixth of an hour. Maria studied her spelling words for <math>6\frac{6}{12}</math> of an hour. The amount of time the three students spent on their homework is less than one hour.</p>	<p>Sam ate three of the eight cookies mother baked. Ben ate one of the eight cookies. Together they ate <math>\frac{4}{16}</math> of the cookies.</p>
<p>Susan walked her dog for a quarter mile on Monday and for half a mile on Tuesday. On Wednesday, Susan walked her dog for <math>\frac{5}{8}</math> of a mile.</p> <p>If her goal is to walk for one and a half miles for the week, Susan only needs to walk a total of a quarter mile on Thursday and Friday.</p>	<p>For a fifth grade student to stay healthy, one-fifth of the foods eaten should be vegetables and two-fifths of the foods eaten should be grains. Therefore, 0.3 of the foods that a fifth grader eats should be vegetables and grains.</p>
<p>At the deli, Jay ordered 1.25 pounds of ham, 1.50 pounds of turkey, and 0.75 pounds of cheese. Jay purchased a total of <math>2\frac{3}{4}</math> pounds of food.</p>	$4\frac{3}{6} + 1\frac{5}{6} = 6\frac{1}{3}$
<p>Jane and Bill need <math>2\frac{1}{4}</math> cups of cucumbers, 1 cup of onions, and <math>\frac{2}{4}</math> cup of cheese to make a snack. The total amount of vegetables needed to make their snack equals <math>3\frac{3}{4}</math> cups.</p>	$\frac{3}{4} + \frac{1}{2} + \frac{1}{4} + \frac{4}{8} + \frac{8}{8} + \frac{1}{4} = 3\frac{1}{4}$

## A Problem Solving Guide

1. Read the problem twice.
2. Draw a picture.
3. Decide what the problem is asking.
4. Write a number sentence.
5. Does the picture match the number sentence?
6. Solve the problem.
7. Does the answer make sense?
8. Read the problem one more time.



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