



Name \_\_\_\_\_ Class \_\_\_\_\_

## Word Problems I

**Directions:** Read each word problem carefully. Then draw a diagram that shows the situation described in the problem. You don't have to solve the problems. Remember, there is more than one good way to picture a problem.

1. Wade Willis makes monthly car payments for \$289.50 each. How much does he pay in one year for his car?
2. A dinner bill at a restaurant was \$24.90. The tax was \$0.75, and the tip was \$3.75. How much was paid in all?
3. Jill Vavra works from 9 to 5. She gets 1 hour for lunch, a 15-minute break in the morning, and a 15-minute break in the afternoon. How many hours does she actually work each day?
4. An older man finished a local marathon race in  $8\frac{1}{2}$  hours. His son finished the race in half that time. The winner of the race finished in half the son's time. How long did the winner take to run the race?
5. The Elliots are wallpapering a wall in their living room. The wall is 20 feet by 10 feet, and the door in the wall is 4 feet by 9 feet. How many square feet of wallpaper will they need?



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# Word Problems II

**Directions:** Read each word problem carefully. Then write the information you need to solve the problem and the numbers you need to work with. You don't have to solve the problems. The first one is done as an example.

1. Douglas took Lana to the movies. The tickets cost \$8.50 apiece. He bought 2 boxes of popcorn and 2 cups of soda for a total of \$12.50. How much did the evening cost Douglas?

*cost of each ticket: \$8.50*

*how many tickets: 2*

*how much for food: \$12.50*

2. At a company 95 people are plant workers, 18 are office workers, and 7 are managers. What percentage of the company's employees are office workers?

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3. A car dealer is offering incentives to buy: either a \$1,000 rebate or 5 percent off. The Vargases want to buy a new car worth \$14,499 and trade in their old car for \$2,400. Which incentive should they take?

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4. Two summers ago the company softball team won 10 of 12 games. Last summer the team won 7 of 12. This summer the team won 4 of 12. What is the average number of games the team has won in each season?

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5. Mrs. Orsini is making a double batch of lasagna for a large family party. Her recipe calls for  $\frac{3}{8}$  pound of ground lean pork. The recipe feeds 12 people. How much pork will Mrs. Orsini need?

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## Word Problems III

**Directions:** Read each word problem carefully. Then decide which operation or operations you must use to solve it. Write the operations on the lines below the problems. You don't have to solve the problems.

1. California peaches cost \$0.88 a pound. How much will 2.5 pounds cost?

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2. Mimi Yops has a checking balance of \$512.30. She writes checks for \$30.00, \$16.15, and \$92.40. Then she deposits her paycheck of \$424.66. What is her current balance?

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3. Jack Traynor bought a flashlight for \$10.95 and batteries for \$3.69. Sales tax is 6 percent. How much will Mr. Traynor pay in all?

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4. Gas costs \$1.339 a gallon. How many gallons will \$10.00 buy?

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5. On Friday Dave Janek bowled 160 and 175. On Saturday night he bowled 195, 163, and 177. What was his bowling average for those 5 games?

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6. An appliance saleswoman makes a salary of \$300 a week. She makes 30 percent commission on what she sells. One week she sold \$1,883 worth of appliances. How much did she earn that week altogether?

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7. The Kovachs are buying carpeting for 2 rooms. The living room is 15 feet by 12 feet, and the dining room is 12 feet by 9 feet. How many square feet of carpeting will they need to buy?

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8. On December 1 Dan weighed 189. On January 1 he weighed 195. Scientists estimate that 3,500 unused calories add 1 pound to a person's weight. How many calories did Dan eat in December that he did not burn up?

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# Word Problems IV

**Directions:** Solve each of the following word problems.

1. **A** A diver needs to descend to a depth of 128 feet below sea level to reach the bottom. He can descend 16 feet each minute. How many minutes will it take to reach the bottom?  
**B** The diver's air tank will hold enough air for 45 minutes. It takes him as much time to reach the surface as it did to get to the bottom. How many minutes can he stay on the bottom?
  
2. **A** Gwen owed \$1,215 on her charge card. During the next four months she made equal payments of \$225 each month. How much did she pay?  
**B** How much does she have left to pay on her charge card?
  
3. **A** Chris had \$875 in her savings account. The first week she withdrew \$490. How much money was left in her savings account?  
**B** The next week she made a deposit of \$326. How much money does she now have in her savings account?
  
4. **A** At 6:00 P.M. the temperature was 17°. The temperature dropped at a rate of 4° every hour for 6 hours. How many degrees did the temperature drop?  
**B** What was the temperature at midnight?
  
5. **A** Wooten Tool & Die had a profit of \$4,580 the first month. The second month it lost \$9,450. What were the company's earnings over the two months?  
**B** After three months Wooten Tool & Die showed a profit of \$2,460. How much did the company make in the third month?



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# Setup Problems I

**Directions:** Read each word problem carefully. Select the correct way to solve the problem. Circle the letter of the setup you pick. You don't have to solve the problems.

1. The Phillips's car insurance went up 5 percent this year. They had been paying \$526 a year. What will their insurance cost now?

Ⓐ  $526 \times 0.05$                       Ⓑ  $\frac{526 \times 5}{12}$                       Ⓒ  $(526 \times 0.05) + 526$

2. Marty Lieber wants to buy doughnuts for the 22 persons who work in his office. If he wants everyone to be able to have at least 2 doughnuts, how many dozen should he buy?

Ⓐ  $\frac{22 \times 2}{12}$                       Ⓑ  $22 \times 2$                       Ⓒ  $(22 + 12)2$

3. A story advertised 2 green peppers for 99 cents. How much would 3 green peppers cost?

Ⓐ  $(99 \times 2) + 3$                       Ⓑ  $\frac{99 \times 3}{2}$                       Ⓒ  $\frac{99 \times 2}{3}$

4. Larissa gives massages at the health club. Her rates are as follows:

30 minutes: \$30  
45 minutes: \$40  
60 minutes: \$50

One day she gave 1 60-minute massage, 2 45-minute massages, and 2 30-minute massages. How much did she make that day?

Ⓐ  $50(60) + 40(45)2 + 30(30)2$                       Ⓑ  $60 + 2(45) + 2(30)$                       Ⓒ  $50 + 2(40) + 2(30)$

5. At the end of the day a store clerk had 5 pennies, 10 nickels, 20 dimes, and 14 quarters left in his change drawer. How much total change did he write on his balance sheet?

Ⓐ  $5(0.01) + 10(0.05) + 20(0.10) + 14(0.25)$   
 Ⓑ  $(5 + 10 + 20 + 14) \times (0.01 + 0.05 + 0.10 + 0.25)$   
 Ⓒ  $(5 \times 10 \times 20 \times 14) + (0.01 \times 0.05 \times 0.10 \times 0.25)$

6. The IRS allows a deduction of \$0.31 per business mile driven. Fred drove his business car 22.5 miles on Monday, 30.0 miles on Wednesday, and 10.9 miles on Friday. How much will he be able to deduct for that week?

Ⓐ  $\frac{22.5 + 30.0 + 10.9}{0.3}$                       Ⓑ  $(22.5 + 30.0 + 10.9)0.31$                       Ⓒ  $(0.31 + 22.5)(30.0 + 10.9)$



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## Setup Problems II

**Directions:** Read each word problem carefully. Then write an expression that shows a way to set up the problem. You don't have to solve the problems.

1. A woman won \$1,000 in a church raffle. She kept \$200 for herself and then evenly divided the rest among her 5 sons. How much money did each son get?

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2. A phone call outside Steve Sand's local calling area costs 18 cents for the first minute and 10 cents for each minute after that. How much would a 20-minute call cost?

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3. A factory worker makes \$11.00 an hour and time and a half for overtime. If he works 40 hours during the week and 5 hours overtime on Saturday, how much will he earn that week?

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4. Mary Wong will get a 5 percent raise this year. Her current salary is \$23,500. How much will her annual salary be after her raise?

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5. Mr. Armas wants to limit his cholesterol intake to 300 mg a day. He has already eaten the following today:

pork chop: 100 mg  
cheese: 100 mg  
butter pats: 30 mg

How many more mg of cholesterol can he have today?

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6. A hardware store is advertising a special: 2 gallons of house paint for \$39.99. How much would 5 gallons cost?

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7. Tania Wells charges \$25 for a haircut and \$50 for a permanent in her home. One Saturday she cut 5 persons' hair and gave 2 permanents. How much did she earn that day?

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