

Purchasing a Used Car

Directions Compute the answers to these problems. Write your answer on the line.

1. Derek buys a \$2,230 car with a \$580 trade-in. How much extra money does he pay? _____
2. Lisa agrees to pay \$157.28 per month for her car. How much will she pay in nine months? _____
3. Marti's car has a sale price of \$6,630. How much money does she pay after a \$1,090 rebate? _____
4. Tashia's car is guaranteed for 30 days or 4,000 miles (whichever comes first). She bought the car on April 10 with 48,397 miles on it. On May 8, the odometer reads 52,405. Is the guarantee still in effect? _____
5. The ad reads, "\$725 or best offer." If your offer of \$580 is accepted, how much money will you save? _____
6. Calvin's car is guaranteed for 30 days or 4,500 miles (whichever comes first). He bought the car on July 7 with 38,472 miles. On August 7, the odometer reads 42,950. Is the guarantee still in effect? _____
7. The car Andres wants to buy has a list price of \$7,614.11. The dealer will sell it at 5% off. How much must he pay? _____
8. Your car invoice reads: "Price \$1,492.50, dealer preparation \$45.00, transportation \$54.50, undercoat \$148.80, 60-day guarantee \$95.00, tape deck \$238.73." What is the final cost? _____
9. When Viviana purchases her car, she agrees to pay \$126.00 down and \$108.83 per month for one year. How much will she pay for the car? _____
10. Tam paid the dealer \$1,410.00 cash for his car. He also paid \$40.00 for license plates, \$154.30 for insurance, and 6% sales tax. How much did Tam pay for all these charges? _____



Purchasing a Used Car

Directions Compute the answers to these problems. Write your answer on the line. Round your answers to the nearest cent.

1. Lisle buys a \$15,995 car with a \$1,500 trade-in. How much more money does she pay? _____
2. Jon agrees to pay \$356.47 per month for his car. How much will he pay in 14 months? _____
3. Tamika's car has a sale price of \$12,679. How much money does she pay after a \$2,080 rebate? _____
4. Fran's car is guaranteed for 60 days or 5,000 miles (whichever comes first). She bought the car on April 10 with 36,757 miles on it. On June 8, the odometer reads 41,732. Is the guarantee still in effect? How do you know? _____
5. The ad reads "\$1,000 or best offer." If your offer of \$760.00 is accepted, how much money will you save? _____
6. Hobbes' car is guaranteed for 30 days or 4,500 miles (whichever comes first). He bought the car on January 7 with 25,123 miles. On February 7, the odometer reads 29,379. Is the guarantee still in effect? How do you know? _____
7. The car Francesca wants to buy has a list price of \$9,995.07. The dealer will sell it at 8% off. How much must she pay? _____
8. Your car invoice reads "Price \$10,379.94, dealer preparation \$101.00, transportation \$75.60, undercoat \$259.99, 60-day guarantee \$176.00, tape deck \$84.10." What is the final cost? _____
9. When Meredith purchases her car, she agrees to pay \$500.00 down and \$56.14 per month for three years. How much will she pay for the car? _____
10. Sean paid the dealer \$6,756.00 cash for his car. He also paid 7% sales tax on the car, \$80.00 for license plates, and \$201.16 for insurance. How much did Sean pay for all these charges? _____



Purchasing a Used Car

EXAMPLE

Sean pays a \$1,000.00 down payment for his car. He agrees to pay \$95.00 per month for 3 years. How much money does he pay for the car?

Step 1 3 years = $12 \times 3 = 36$ months

Step 2 36 months $\times$ \$95.00 per month = \$3,420.00

Step 3 \$3,420.00 + \$1,000.00 down payment = \$4,420.00
total cost of car.

Directions Compute the answers to these problems. Write your answer on the line. Round your answers to the nearest cent.

1. Liz buys a \$14,500 car with a \$1,500 trade-in. How much more money does she pay? _____
2. Jon agrees to pay \$374.00 per month for his car. How much will he pay in 14 months? _____
3. Tamika's car has a sale price of \$12,679. How much money does she pay after a \$2,000 rebate? _____
4. The ad reads "\$1,000 or best offer." If your offer of \$760.00 is accepted, how much money will you save? _____
5. Hobbes' car is guaranteed for 30 days or 4,500 miles (whichever comes first). He bought the car on January 7 with 25,123 miles. On February 7, the odometer reads 29,379. Is the guarantee still in effect? How do you know? _____
6. The car Francesca wants to buy has a list price of \$9,995.07. The dealer will sell it at 8% off. How much must she pay? _____
7. Your car invoice reads "Price \$10,379.94, dealer preparation \$101.00, transportation \$75.60, undercoat \$259.99, 60-day guarantee \$176.00, tape deck \$84.10." What is the final cost? _____

Financing a Car

EXAMPLE

Antigone purchased a car for \$26,500.00 and financed the payments. After paying a \$6,500.00 down payment, she financed the rest for 72 months at \$456.49 per month. What was the deferred price of Antigone's car and the total interest she paid?

Step 1 Multiply to find total monthly payments

$$\begin{array}{r} \$456.49 \text{ Monthly Payment} \\ \times 72 \text{ Months} \\ \hline \$32,867.28 \text{ Total Monthly Payments} \end{array}$$

Step 2 Add to find deferred price

$$\begin{array}{r} \$32,867.28 \text{ Total Monthly Payments} \\ + 6,500.00 \text{ Down Payment} \\ \hline \$39,367.28 \text{ Deferred Price} \end{array}$$

Step 3 Subtract to find Interest Paid

$$\begin{array}{r} \$39,367.28 \text{ Deferred Price} \\ - 26,500.00 \text{ Cash Price} \\ \hline \$12,867.28 \text{ Interest Paid} \end{array}$$

The deferred price of Antigone's car is \$39,367.28 and the total interest paid is \$12,867.28.

Directions Find the total monthly payment, the deferred price and the interest paid.

	Cash Price	Down Payment	Monthly Payment	Months to Pay	Total Monthly Payments	Deferred Price	Interest Paid
1.	\$26,000	\$6,000	\$456.49	72	_____	_____	_____
2.	\$14,000	\$4,000	\$252.13	60	_____	_____	_____
3.	\$9,250	\$1,250	\$215.67	48	_____	_____	_____
4.	\$33,500	\$3,500	\$613.35	72	_____	_____	_____
5.	\$17,999	\$2,999	\$345.04	60	_____	_____	_____
6.	\$23,700	\$3,700	\$432.05	72	_____	_____	_____
7.	\$22,899	\$2,899	\$366.21	72	_____	_____	_____
8.	\$15,500	\$5,500	\$219.70	60	_____	_____	_____
9.	\$21,769	\$3,169	\$390.29	60	_____	_____	_____
10.	\$44,600	\$4,600	\$912.98	72	_____	_____	_____
11.	\$25,800	\$5,800	\$481.66	60	_____	_____	_____
12.	\$17,895	\$2,895	\$378.20	60	_____	_____	_____
13.	\$31,700	\$3,700	\$621.75	72	_____	_____	_____
14.	\$29,999	\$2,999	\$567.43	72	_____	_____	_____
15.	\$15,630	\$10,000	\$163.34	48	_____	_____	_____
16.	\$22,999	\$3,999	\$457.58	60	_____	_____	_____



Financing a Car

EXAMPLE

Carlos purchased a car for \$34,770 and financed the payments. After paying \$6000 down payment, he financed the rest for 60 months at \$525 per month. What was the deferred price of Carlos' car and the total interest he paid?

Step 1 Multiply to find total monthly payments

$$\begin{array}{r} \$ 525 \text{ Monthly Payment} \\ \times 60 \text{ Months} \\ \hline \$31,500 \text{ Total Monthly Payments} \end{array}$$

Step 2 Add to find deferred price

$$\begin{array}{r} \$ 31,500 \text{ Total Monthly Payments} \\ + 6,000 \text{ Down Payment} \\ \hline \$ 37,500 \text{ Deferred Price} \end{array}$$

Step 3 Subtract to find Interest Paid

$$\begin{array}{r} \$ 37,500 \text{ Deferred Price} \\ - 34,770 \text{ Cash Price} \\ \hline \$ 2,730 \text{ Interest Paid} \end{array}$$

The deferred price of Carlos' car is \$37,500 and the total interest paid is \$2,730.

Directions Find the total monthly payment, the deferred price and the interest paid.

	Cash Price	Down Payment	Monthly Payment	Months to Pay	Total Monthly Payments	Deferred Price	Interest Paid
1.	\$17,000	\$6,000	\$277.34	60	_____	_____	_____
2.	\$20,000	\$5,000	\$378.20	60	_____	_____	_____
3.	\$12,500	\$1,200	\$231.03	72	_____	_____	_____
4.	\$21,000	\$3,000	\$485.26	48	_____	_____	_____
5.	\$18,500	\$2,000	\$444.83	48	_____	_____	_____
6.	\$22,800	\$4,500	\$395.33	72	_____	_____	_____
7.	\$24,900	\$3,500	\$449.05	60	_____	_____	_____
8.	\$16,250	\$1,250	\$389.80	48	_____	_____	_____
9.	\$18,060	\$3,000	\$275.76	72	_____	_____	_____
10.	\$24,750	\$6,000	\$543.98	48	_____	_____	_____
11.	\$38,000	\$10,000	\$674.33	60	_____	_____	_____
12.	\$20,000	\$3,000	\$428.62	60	_____	_____	_____
13.	\$26,000	\$3,000	\$655.16	48	_____	_____	_____



Financing a Car

EXAMPLE

Carlos purchased a car for \$34,000 and financed the payments. After paying \$6,000 down payment, he financed the rest for 60 months at \$500 per month. What was the deferred price of Carlos' car? How much interest did he pay?

Step 1 Multiply to find total monthly payments

$$\begin{array}{r} \$ 500 \text{ Monthly Payment} \\ \times 60 \text{ Months} \\ \hline \$30,000 \text{ Total Monthly Payments} \end{array}$$

Step 2 Add to find deferred price

$$\begin{array}{r} \$ 30,000 \text{ Total Monthly Payments} \\ + 6,000 \text{ Down Payment} \\ \hline \$ 36,000 \text{ Deferred Price} \end{array}$$

Step 3 Subtract to find Interest Paid

$$\begin{array}{r} \$ 36,000 \text{ Deferred Price} \\ - 34,000 \text{ Cash Price} \\ \hline \$ 2,000 \text{ Interest Paid} \end{array}$$

The deferred price of Carlos' car is \$36,000 and the total interest paid is \$2,000.

Directions Find the total monthly payment, the deferred price and the interest paid.

	Cash Price	Down Payment	Monthly Payment	Months to Pay	Total Monthly Payments	Deferred Price	Interest Paid
1.	\$18,000	\$5,000	\$250.00	60	_____	_____	_____
2.	\$25,000	\$2,000	\$400.00	60	_____	_____	_____
3.	\$12,500	\$1,200	\$231.00	72	_____	_____	_____
4.	\$24,000	\$3,000	\$485.00	48	_____	_____	_____
5.	\$18,500	\$2,000	\$444.83	48	_____	_____	_____
6.	\$22,800	\$4,500	\$395.33	72	_____	_____	_____
7.	\$24,900	\$3,500	\$449.05	60	_____	_____	_____
8.	\$16,250	\$1,250	\$389.80	48	_____	_____	_____
9.	\$18,060	\$3,000	\$275.76	72	_____	_____	_____
10.	\$24,750	\$6,000	\$543.98	48	_____	_____	_____

Automobile Liability Insurance

EXAMPLE

Jerod had \$100,000/\$150,000 liability coverage. He injured three people in an accident: \$30,000; \$50,000; and \$110,000. Find the insurance payment. Find Jerod's payment.

Coverage:

\$100,000/\$150,000

Amounts Due Victims:

\$30,000; \$50,000;

\$110,000

Insurance Company's Payment

Person 1: \$ 30,000

Person 2: 50,000

Person 3: +100,000 Policy limit*

Total: \$ 180,000

–150,000 Policy limit*

\$ 30,000

Driver's Payment

Person 3: \$ 10,000*

+30,000

\$ 40,000

*Remember, the insurance company only pays up to the policy limit. In this case, Jerod would have to pay the \$10,000 that goes over the limit for injury to any one person (\$110,000 – \$100,000 limit), as well as the \$30,000 that goes over the policy limit.

Directions For each case below, compute the insurance company's payment and the driver's payment, if any.

Coverage	Amounts Due Victims	Insurance Company's Payment	Driver's Payment
1. \$50,000/\$150,000	\$20,000; \$12,500; \$12,500; \$60,000	_____	_____
2. \$100,000/\$150,000	\$110,000; \$60,000; \$103,000	_____	_____
3. \$75,000/\$125,000	\$79,000; \$52,500	_____	_____
4. \$150,000/\$300,000	\$120,000; \$155,000	_____	_____
5. \$75,000/\$125,000	\$75,000; \$81,000; \$3,500; \$105,000	_____	_____
6. \$125,000/\$225,000	\$112,500	_____	_____
7. \$150,000/\$250,000	\$4,500; \$165,000; \$90,000	_____	_____
8. \$100,000/\$150,000	\$130,000; \$109,000; \$5,000	_____	_____
9. \$150,000/\$200,000	\$160,000	_____	_____
10. \$150,000/\$225,000	\$180,000; \$6,000; \$180,000	_____	_____
11. \$50,000/\$200,000	\$7,000; \$60,000; \$7,000	_____	_____
12. \$75,000/\$125,000	\$82,500; \$52,500; \$97,500	_____	_____
13. \$100,000/\$225,000	\$116,000; \$50,000	_____	_____



Buying Automobile Insurance

EXAMPLE

Sarah, who is 18 years old, wants coverages 1A, 2A, 3C, and 5E. She has had one moving violation. Find her total premium from the chart.

Rating Factors:

Age	Accidents and Moving Violations
Under 20 = +30%	1 = +30%
20 – 24 = +10%	2 = Refuse policy
25 – 64 = +0%	
Over 64 = +10%	

AUTOMOBILE INSURANCE PREMIUM CHART

	1	2	3	4	5
	Liability	Collision (Deductible)	Medical Payments	Property Damage	Comprehensive Fire & Theft
A	\$25K/50K \$533.10	\$500 \$208.70	\$500 \$ 34.80	\$10,000 \$212.80	\$500 Ded. \$ 19.80
B	\$50K/100K \$607.40	\$300 \$281.70	\$1,000 \$ 53.60	\$20,000 \$217.90	\$300 Ded. \$ 56.90
C	\$100K/150K \$649.30	\$250 \$302.40	\$2,000 \$ 70.20	\$30,000 \$222.40	\$250 Ded. \$ 61.30
D	\$100K/200K \$664.90	\$150 \$340.80	\$3,000 \$ 92.90	\$50,000 \$229.60	\$150 Ded. \$127.60
E	\$150K/300K \$703.20	\$100 \$378.50	\$5,000 \$107.10	\$75,000 \$234.10	\$0.00 Ded. \$158.80

Step 1 1A = \$533.10; 2A = \$208.70; 3C = \$70.20; 5E = \$158.80

Step 2 \$533.10 + \$208.70 + \$70.20 + \$158.80 = \$970.80

Step 3 Rating factors: Age = 30%; Moving violations = 30%

Step 4 30% + 30% = 60%

Step 5 \$970.80 × .60 = \$582.48

Step 6 \$970.80 + \$582.48 = \$1,553.28 (Sarah's annual premium)

Directions Compute the annual premium for these policies.

Coverages	Age	Accidents and Moving Violations	Annual Premium
1. 1B, 2B, 3E, 4A, 5C	34	2	_____
2. 1E, 2A, 3C, 4E, 5D	51	0	_____
3. 1A, 2C, 3A, 4C, 5C	58	1	_____
4. 1D, 2D, 4B, 5E	23	1	_____
5. 1C, 3E, 4E, 5E	33	1	_____
6. 1D, 2A, 3E, 4D, 5E	36	0	_____
7. 1E, 2C, 3B, 4A, 5D	18	1	_____
8. 1C, 2E, 3D, 4D, 5E	51	2	_____
9. 1C, 2E, 3D, 4C, 5E	65	0	_____
10. 1C, 2B, 3E, 4B	62	0	_____
11. 1B, 2D, 4C, 5E	60	1	_____
12. 1B, 2B, 3E, 4B, 5B	27	0	_____



Buying Automobile Insurance

EXAMPLE

Sarah, who is 18 years old, wants coverages 1B, 2A, and 3D. She has had one moving violation. Find her total premium from the chart.

Rating Factors:

Age	Accidents and Moving Violations
Under 20 = +30%	1 = +30%
20 – 24 = +10%	2 = Refuse policy
25 – 64 = +0%	
Over 64 = +10%	

AUTOMOBILE INSURANCE PREMIUM CHART

	1	2	3	4	5
	Liability	Collision (Deductible)	Medical Payments	Property Damage	Comprehensive Fire & Theft
A	\$25K/50K \$533.10	\$500 \$208.70	\$500 \$ 34.80	\$10,000 \$212.80	\$500 Ded. \$ 19.80
B	\$50K/100K \$607.40	\$300 \$281.70	\$1,000 \$ 53.60	\$20,000 \$217.90	\$300 Ded. \$ 56.90
C	\$100K/150K \$649.30	\$250 \$302.40	\$2,000 \$ 70.20	\$30,000 \$222.40	\$250 Ded. \$ 61.30
D	\$100K/200K \$664.90	\$150 \$340.80	\$3,000 \$ 92.90	\$50,000 \$229.60	\$150 Ded. \$127.60
E	\$150K/300K \$703.20	\$100 \$378.50	\$5,000 \$107.10	\$75,000 \$234.10	\$0.00 Ded. \$158.80

Step 1 1B = \$607.40; 2A = \$208.70; 3D = \$92.90

Step 2 \$607.40 + \$208.70 + \$92.90 = \$909.00

Step 3 Rating factors: Age = 30%; Moving violations = 30%

Step 4 30% + 30% = 60%

Step 5 \$909.00 × 0.60 = \$545.40

Step 6 \$909.00 + \$545.40 = \$1,454.40 (Sarah's annual premium)

Directions Compute the annual premium for these policies.

Coverages	Age	Accidents and Moving Violations	Annual Premium
1. 1B, 2B, 3E, 4A	22	2	_____
2. 1E, 2A, 3C, 4E	30	0	_____
3. 1A, 2C, 4C, 5C	50	1	_____
4. 1D, 2D, 4B, 5E	23	0	_____
5. 1C, 3E, 4E, 5E	33	1	_____
6. 1D, 2A, 3E, 5E	36	0	_____
7. 1E, 2C, 4A, 5D	18	1	_____
8. 1C, 2B, 3E, 4B	62	0	_____
9. 1B, 2D, 4C, 5E	60	1	_____



Reading an Odometer

EXAMPLE

3	5	2	1	8	8	5
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Shanoma's odometer reads 352188.5.

Write the reading in words.

Step 1 Place the decimal point and a comma in the number. 352,188.5**Step 2** Write the number in words.
The reading is three hundred fifty-two thousand,
one hundred eighty-eight and five tenths miles.**Directions** Write the odometer reading in words.

1.	0	5	5	7	8	3	1
2.	1	4	2	9	2	4	3
3.	0	2	4	4	7	6	1
4.	0	0	0	2	6	8	3

Directions Round to the nearest thousand miles. Write the number in words.

5.	0	6	8	2	2	3	9
6.	1	9	8	8	7	5	0
7.	0	0	8	7	6	0	7
8.	1	3	2	5	5	4	1

Average Miles Driven per Year

EXAMPLE

Dakota's odometer reads 14,579.2 miles. His car is 3 years old. Find the average number of miles he drove per year. Round to the nearest hundred miles.

0	1	4	5	7	9	2
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Step 1 Divide to the 10 miles place.

$$\begin{array}{r} 4,859. \\ 3 \overline{) 14,579.2} \\ \underline{12} \\ 25 \\ \underline{24} \\ 17 \\ \underline{15} \end{array}$$

Step 2 Round off to the 100 miles place.

4,900 miles

Dakota drove an average of 4,900 miles per year.

Directions Find the average number of miles driven per year for each car. Round your answer to the nearest hundred miles.

	Odometer Reading	Age of Car in Years	Average Number of Miles							
1.	<table><tr><td>0</td><td>0</td><td>2</td><td>7</td><td>5</td><td>8</td><td>0</td></tr></table>	0	0	2	7	5	8	0	2	
0	0	2	7	5	8	0				
2.	<table><tr><td>0</td><td>0</td><td>8</td><td>5</td><td>7</td><td>3</td><td>7</td></tr></table>	0	0	8	5	7	3	7	4	
0	0	8	5	7	3	7				
3.	<table><tr><td>0</td><td>8</td><td>7</td><td>5</td><td>6</td><td>2</td><td>3</td></tr></table>	0	8	7	5	6	2	3	9	
0	8	7	5	6	2	3				
4.	<table><tr><td>0</td><td>2</td><td>6</td><td>7</td><td>3</td><td>0</td><td>3</td></tr></table>	0	2	6	7	3	0	3	2	
0	2	6	7	3	0	3				
5.	<table><tr><td>1</td><td>3</td><td>2</td><td>5</td><td>7</td><td>3</td><td>8</td></tr></table>	1	3	2	5	7	3	8	9	
1	3	2	5	7	3	8				
6.	<table><tr><td>0</td><td>0</td><td>9</td><td>5</td><td>3</td><td>1</td><td>5</td></tr></table>	0	0	9	5	3	1	5	5	
0	0	9	5	3	1	5				
7.	<table><tr><td>0</td><td>4</td><td>6</td><td>2</td><td>0</td><td>4</td><td>7</td></tr></table>	0	4	6	2	0	4	7	3	
0	4	6	2	0	4	7				
8.	<table><tr><td>0</td><td>9</td><td>3</td><td>4</td><td>5</td><td>6</td><td>2</td></tr></table>	0	9	3	4	5	6	2	6	
0	9	3	4	5	6	2				
9.	<table><tr><td>0</td><td>3</td><td>4</td><td>5</td><td>7</td><td>3</td><td>1</td></tr></table>	0	3	4	5	7	3	1	4	
0	3	4	5	7	3	1				
10.	<table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>8</td><td>0</td></tr></table>	1	2	3	4	5	8	0	12	
1	2	3	4	5	8	0				
11.	<table><tr><td>1</td><td>0</td><td>0</td><td>3</td><td>5</td><td>2</td><td>6</td></tr></table>	1	0	0	3	5	2	6	10	
1	0	0	3	5	2	6				
12.	<table><tr><td>0</td><td>5</td><td>3</td><td>5</td><td>1</td><td>1</td><td>7</td></tr></table>	0	5	3	5	1	1	7	8	
0	5	3	5	1	1	7				
13.	<table><tr><td>0</td><td>9</td><td>8</td><td>7</td><td>6</td><td>2</td><td>4</td></tr></table>	0	9	8	7	6	2	4	8	
0	9	8	7	6	2	4				
14.	<table><tr><td>0</td><td>1</td><td>9</td><td>6</td><td>2</td><td>7</td><td>0</td></tr></table>	0	1	9	6	2	7	0	3	
0	1	9	6	2	7	0				
15.	<table><tr><td>0</td><td>4</td><td>6</td><td>2</td><td>8</td><td>7</td><td>1</td></tr></table>	0	4	6	2	8	7	1	5	
0	4	6	2	8	7	1				
16.	<table><tr><td>0</td><td>0</td><td>0</td><td>7</td><td>2</td><td>6</td><td>0</td></tr></table>	0	0	0	7	2	6	0	1	
0	0	0	7	2	6	0				

Average Miles Driven per Year

EXAMPLE

1 5 6 1 8 7 5

1	5	6	1	8	7	5
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Bailey's odometer reads 156187.5. Her car is 6 years old. Find the average number of miles she drove per year. Round to the nearest mile.

$$\begin{array}{r} 26,031.2 \rightarrow 26,031 \text{ miles} \\ 6 \overline{)156,187.5} \end{array}$$

Bailey drove an average of 26,031 miles per year.

Directions Find the average number of miles driven per year for each car. Round your answer to the nearest mile.

Odometer Reading**Age of Car in Years****Average Number of Miles**

1.	0	0	3	8	6	9	1
2.	0	0	9	6	8	4	8
3.	0	9	8	6	7	3	4
4.	0	3	7	8	4	1	4
5.	1	4	3	6	8	4	9
6.	1	0	1	6	4	2	6
7.	0	5	7	3	1	5	8
8.	1	1	4	5	6	7	3
9.	1	4	5	6	8	4	2

3

5

7

2

10

8

5

7

6

Directions Find the average number of miles driven per year. Round your answer to the nearest hundred miles.

Odometer Reading**Age of Car in Years****Average Number of Miles**

10.	2	3	4	5	6	9	0
11.	2	1	0	4	6	3	7
12.	1	0	4	6	2	2	8
13.	0	0	9	8	7	3	5
14.	0	0	2	7	3	8	0
15.	1	5	7	3	9	8	2
16.	0	0	0	8	3	7	1
17.	0	8	9	6	4	6	3
18.	0	1	4	3	5	7	6

10

11

8

6

3

9

2

6

5



Average Miles Driven per Year

EXAMPLE1 1 6 1 7 7 5

1	1	6	1	7	7	5
---	---	---	---	---	---	---

Bailey's odometer reads 116177.5. Her car is 5 years old.
Find the average number of miles she drove per year.
Round to the nearest mile.

$$\begin{array}{r} 23,235.5 \Rightarrow 23,236 \text{ miles} \\ 5 \overline{) 116,177.5} \end{array}$$

Bailey drove an average of 23,236 miles per year.

Directions Find the average number of miles driven per year for each car.
Round your answer to the nearest mile.

Odometer Reading**Age of Car in Years****Average Number of Miles**

1.	0	0	4	6	6	9	1
2.	0	0	3	6	7	4	8
3.	0	9	8	6	7	3	4
4.	0	3	7	8	4	1	4
5.	1	4	3	6	8	4	9
6.	0	6	6	7	4	2	6
7.	0	5	7	3	1	5	8

2

4

7

2

10

6

5

Directions Find the average number of miles driven per year.
Round your answer to the nearest hundred miles.

Odometer Reading**Age of Car in Years****Average Number of Miles**

8.	1	0	3	7	8	2	8
9.	0	0	9	8	7	3	5
10.	0	0	2	7	3	8	0
11.	1	5	7	3	9	8	2
12.	0	0	0	8	3	7	1
13.	0	8	9	6	4	6	3
14.	0	1	4	3	5	7	6

8

6

3

9

2

5

5



Number of Miles Traveled

EXAMPLE

Samuel's odometer reads 456187.5 at the beginning of a trip. At the end, it reads 459733.2. How far did Samuel travel to the nearest mile?

To find the distance, subtract the beginning reading from the ending reading.

$$\begin{array}{r} 459,733.2 \\ - 456,187.5 \\ \hline 3,545.7 \end{array}$$

Samuel traveled 3,546 miles.

Directions Find the number of miles traveled. Round to the nearest mile.

	Beginning	End	Miles Traveled
1.	004561.9	004783.9	_____
2.	194766.2	195351.6	_____
3.	022945.5	023010.3	_____
4.	010304.0	010728.2	_____
5.	115678.5	116283.4	_____
6.	109357.7	109499.6	_____
7.	034811.9	035168.8	_____
8.	044122.6	046587.3	_____
9.	000347.2	001173.8	_____
10.	045821.5	045911.6	_____
11.	100682.6	101773.2	_____
12.	029613.7	030010.5	_____
13.	075329.4	075987.7	_____
14.	004729.6	013844.4	_____
15.	039559.8	040688.0	_____
16.	107603.4	108933.2	_____
17.	110110.0	120095.7	_____
18.	003526.5	003822.8	_____
19.	035583.2	039533.5	_____
20.	118395.3	120554.7	_____



Number of Miles Traveled

EXAMPLE

Samuel's odometer reads 456187.5 at the beginning of a trip. At the end, it reads 459733.2. How far did Samuel travel? Round the answer to the nearest mile.

To find the distance, subtract the beginning reading from the ending reading.

$$\begin{array}{r} 459,733.2 \\ - 456,187.5 \\ \hline 3,545.7 \end{array}$$

Samuel traveled 3,546 miles.

Directions Find the number of miles traveled. Round to the nearest mile.

Beginning	End	Miles Traveled
1. 105061.9	105083.9	_____
2. 250336.9	251557.8	_____
3. 004387.6	004999.5	_____
4. 101113.6	101255.7	_____
5. 034463.2	036672.7	_____
6. 165889.0	166000.0	_____
7. 101567.6	102887.0	_____
8. 003778.5	005822.8	_____
9. 128345.9	130539.7	_____
10. 044869.7	047822.5	_____
11. 091073.4	096389.1	_____
12. 066937.7	070387.6	_____
13. 003955.7	004473.0	_____
14. 108774.0	119558.7	_____
15. 035070.3	036507.5	_____
16. 148995.3	155889.2	_____
17. 266998.2	269338.3	_____



Number of Miles Traveled

EXAMPLE

Samuel's odometer reads 367822.1 at the beginning of a trip. At the end, it reads 367953.2. How far did Samuel travel? Round the answer to the nearest mile.

To find the distance, subtract the beginning reading from the ending reading.

$$\begin{array}{r} 367,953.2 \\ - 367,822.1 \\ \hline 131.1 \end{array}$$

Samuel traveled 131 miles.

Directions Find the number of miles traveled. Round to the nearest mile.

	Beginning	End	Miles Traveled
1.	106143.9	106995.9	_____
2.	240336.8	241557.8	_____
3.	004387.6	004999.5	_____
4.	101113.6	101255.7	_____
5.	034463.2	036672.7	_____
6.	165447.0	166899.0	_____
7.	101567.6	102887.0	_____
8.	003778.5	005822.8	_____
9.	128345.9	130539.7	_____
10.	044869.7	047822.5	_____
11.	091073.4	096389.1	_____
12.	066937.7	070387.7	_____
13.	003955.7	004473.0	_____



Computing the Fuel Needed

EXAMPLE

Twanda is planning a 320 mile trip. Her car's EPA rating is 41 mpg on the highway. How many gallons of gas will she require for this trip? Round to the nearest gallon.

$$\begin{array}{r} 7.8 \\ 41 \overline{) 320.0} \end{array} \quad \begin{array}{l} \sim 8 \text{ gallons needed for the trip} \\ \text{Miles} \end{array}$$

Twanda will need about 8 gallons of gas for this trip.

Directions Find the amount of fuel needed for each trip. Round your answer to the nearest gallon.

	Distance	Mileage Rating	Amount of Fuel
1.	253 miles	22 mpg	_____
2.	119 miles	25 mpg	_____
3.	610 miles	18 mpg	_____
4.	784 miles	32 mpg	_____
5.	223 miles	18 mpg	_____
6.	483 miles	25 mpg	_____
7.	2,194 miles	35 mpg	_____
8.	244 miles	33 mpg	_____
9.	632 miles	29 mpg	_____
10.	2,048 miles	38 mpg	_____
11.	653 miles	28 mpg	_____
12.	2,639 miles	26 mpg	_____
13.	877 miles	39 mpg	_____
14.	902 miles	44 mpg	_____
15.	1,763 miles	42 mpg	_____
16.	3,779 miles	31 mpg	_____
17.	3,992 miles	25 mpg	_____
18.	14,329 miles	41 mpg	_____
19.	296 miles	34 mpg	_____
20.	118 miles	14 mpg	_____



Computing the Fuel Needed

EXAMPLE

Jordan is planning a 470 mile trip. His car's EPA rating is 34 mpg on the highway. How many gallons of gas will he require for this trip? Round to the nearest gallon.

$$\begin{array}{r} 13.8 \approx 14 \text{ gallons needed for the trip} \\ 34 \overline{)470.0} \text{ Miles} \end{array}$$

Jordan will need about 14 gallons of gas for this trip.

Directions Find the amount of fuel needed for each trip. Round your answer to the nearest gallon.

	Distance	Mileage Rating	Amount of Fuel
1.	140 miles	20 mpg	_____
2.	238 miles	21 mpg	_____
3.	1,205 miles	19 mpg	_____
4.	387 miles	17 mpg	_____
5.	446 miles	18 mpg	_____
6.	968 miles	22 mpg	_____
7.	1,097 miles	35 mpg	_____
8.	488 miles	24 mpg	_____
9.	316 miles	16 mpg	_____
10.	1,024 miles	34 mpg	_____
11.	349 miles	36 mpg	_____
12.	5,278 miles	28 mpg	_____
13.	472 miles	14 mpg	_____
14.	885 miles	40 mpg	_____
15.	21,976 miles	37 mpg	_____
16.	6,778 miles	28 mpg	_____
17.	890 miles	25 mpg	_____
18.	482 miles	30 mpg	_____



Computing the Fuel Needed

EXAMPLE

Jordan is planning a 495-mile trip. His car's EPA rating is 31 mpg on the highway. How many gallons of gas will he require for this trip? Round to the nearest gallon.

$$\begin{array}{r} 15.9 \approx 16 \text{ gallons needed for the trip} \\ 31 \overline{)495.0} \text{ Miles} \end{array}$$

Jordan will need about 16 gallons of gas for this trip.

Directions Find the amount of fuel needed for each trip. Round your answer to the nearest gallon.

	Distance	Mileage Rating	Amount of Fuel
1.	120 miles	20 mpg	_____
2.	294 miles	21 mpg	_____
3.	1,235 miles	19 mpg	_____
4.	387 miles	15 mpg	_____
5.	446 miles	18 mpg	_____
6.	968 miles	22 mpg	_____
7.	1,155 miles	35 mpg	_____
8.	488 miles	24 mpg	_____
9.	316 miles	16 mpg	_____
10.	1,024 miles	34 mpg	_____
11.	349 miles	36 mpg	_____
12.	5,278 miles	28 mpg	_____
13.	472 miles	14 mpg	_____
14.	885 miles	40 mpg	_____



Computing Average Speed

EXAMPLE Arthur drives 157 miles in 4 hours and 16 minutes. Find his average rate of speed.

Step 1 Convert minutes to a decimal part of an hour by dividing by 60. Round to the nearest tenth of an hour

$$\begin{array}{r} .26 \text{ Hour} \sim 0.3 \text{ Hour} \\ 60 \overline{) 16.0} \text{ Minutes} \end{array}$$

Step 2 Write the hours as a decimal number.

$$\begin{array}{l} 4 \text{ hours and } 16 \text{ minutes} = \\ 4 \text{ hours} + 0.3 \text{ hours} = 4.3 \text{ hours} \end{array}$$

Step 3 Divide the miles by the hours

$$\begin{array}{r} 36.5 \sim 37 \text{ miles per hour} \\ 4.3 \overline{) 157.0} \end{array}$$

Arthur's average rate of speed is 37 miles per hour.

Directions Find the average speed for these trips. Round your answer to the nearest mile per hour.

	Distance	Time	Average Speed
1.	92 miles	1 hours, 55 minutes	_____
2.	437 miles	10 hours, 15 minutes	_____
3.	906 miles	30 hours, 30 minutes	_____
4.	83 miles	1 hours, 47 minutes	_____
5.	143 miles	3 hours, 10 minutes	_____
6.	892 miles	25 hours, 15 minutes	_____
7.	3,445 miles	86 hours, 14 minutes	_____
8.	572 miles	14 hours, 35 minutes	_____
9.	998 miles	30 hours, 30 minutes	_____
10.	1,653 miles	34 hours, 55 minutes	_____
11.	285 miles	5 hours, 16 minutes	_____
12.	188 miles	4 hours, 12 minutes	_____
13.	621 miles	15 hours, 14 minutes	_____
14.	490 miles	9 hours, 30 minutes	_____
15.	1,477 miles	29 hours, 30 minutes	_____



Computing Average Speed

EXAMPLE Francine drives 259 miles in 6 hours and 24 minutes. Find her average rate of speed.

Step 1 Convert minutes to a decimal part of an hour by dividing by 60.

$$\begin{array}{r} .4 \text{ Hours} \\ 60 \overline{) 24.0} \text{ Minutes} \end{array}$$

Step 2 Write the hours as a decimal number.

$$\begin{array}{l} 6 \text{ hours and } 24 \text{ minutes} = \\ 6 \text{ hours} + .4 \text{ hours} = 6.4 \text{ hours} \end{array}$$

Step 3 Divide the miles by the hours

$$\begin{array}{r} 40.4 \approx 40 \text{ miles per hour} \\ 6.4 \overline{) 259.0} \end{array}$$

Francine's average rate of speed is 40 miles per hour.

Directions Find the average speed for these trips. Round your answer to the nearest mile per hour.

	Distance	Time	Average Speed
1.	140 miles	3 hours, 30 minutes	_____
2.	238 miles	5 hours, 24 minutes	_____
3.	1,205 miles	30 hours, 45 minutes	_____
4.	387 miles	12 hours, 54 minutes	_____
5.	446 miles	17 hours, 48 minutes	_____
6.	968 miles	22 hours, 15 minutes	_____
7.	1,097 miles	27 hours, 30 minutes	_____
8.	488 miles	14 hours, 42 minutes	_____
9.	316 miles	7 hours, 36 minutes	_____
10.	324 miles	9 hours, 55 minutes	_____
11.	349 miles	12 hours, 6 minutes	_____
12.	208 miles	4 hours, 12 minutes	_____
13.	472 miles	10 hours, 14 minutes	_____
14.	885 miles	29 hours, 30 minutes	_____
15.	976 miles	23 hours, 18 minutes	_____



Computing Average Speed

EXAMPLE Francine drives 220 miles in 7 hours and 24 minutes. Find her average rate of speed.

Step 1 Convert minutes to a decimal part of an hour by dividing by 60.

$$\begin{array}{r} .4 \text{ Hours} \\ 60 \overline{) 24.0} \text{ Minutes} \end{array}$$

Step 2 Write the hours as a decimal number.

$$\begin{array}{l} 7 \text{ hours and } 24 \text{ minutes} = \\ 7 \text{ hours} + .4 \text{ hours} = 7.4 \text{ hours} \end{array}$$

Step 3 Divide the miles by the hours

$$\begin{array}{r} 29.7 \approx 30 \text{ miles per hour} \\ 7.4 \overline{) 220.0} \end{array}$$

Francine's average rate of speed is 30 miles per hour.

Directions Find the average speed for these trips. Round your answer to the nearest mile per hour.

	Distance	Time	Average Speed
1.	120 miles	3 hours	_____
2.	230 miles	5 hours	_____
3.	1,294 miles	30 hours, 30 minutes	_____
4.	387 miles	12 hours, 50 minutes	_____
5.	446 miles	17 hours, 48 minutes	_____
6.	968 miles	22 hours, 15 minutes	_____
7.	1,097 miles	27 hours, 30 minutes	_____
8.	488 miles	14 hours, 42 minutes	_____
9.	316 miles	7 hours, 36 minutes	_____
10.	324 miles	9 hours, 55 minutes	_____
11.	380 miles	12 hours, 6 minutes	_____
12.	208 miles	4 hours, 12 minutes	_____



Computing Travel Time

EXAMPLE

Clifford plans a trip of 304 miles. He expects to be able to average 50 miles per hour. How much time should Clifford expect the trip to take?

Step 1 Divide the miles by the average speed. Round to the nearest hundredth of an hour.

$$\begin{array}{r} 6.08 \text{ Hours} \\ 50 \overline{) 304.00} \text{ Miles} \end{array}$$

Step 2 Convert the decimal part of the quotient to minutes by multiplying it by 60.

$$\begin{array}{r} .08 \text{ Hour} \\ \times 60 \text{ Minutes per hour} \\ \hline 4.80 \sim 5 \text{ minutes} \end{array}$$

Clifford's trip should take about 6 hours and 5 minutes.

Directions Find the travel time for each of these trips. Round your answer to the nearest minute.

	Distance	Average Speed	Estimated Time for Trip
1.	450 miles	30 mph	_____
2.	450 miles	35 mph	_____
3.	450 miles	40 mph	_____
4.	450 miles	45 mph	_____
5.	450 miles	55 mph	_____
6.	100 miles	55 mph	_____
7.	200 miles	55 mph	_____
8.	300 miles	55 mph	_____
9.	400 miles	55 mph	_____
10.	500 miles	55 mph	_____
11.	700 miles	37 mph	_____
12.	700 miles	42 mph	_____
13.	700 miles	47 mph	_____
14.	700 miles	52 mph	_____
15.	700 miles	57 mph	_____
16.	1,000 miles	55 mph	_____



Computing Travel Time

EXAMPLE

Emily Elizabeth plans a trip of 410 miles. She expects to be able to average 45 miles per hour. How much time should Emily Elizabeth expect the trip to take?

- Step 1** Divide the miles by the average speed.
Round to the nearest hundredth of an hour.

$$\begin{array}{r} 9.11 \text{ Hours} \\ 45 \overline{)410.00} \text{ Miles} \end{array}$$

- Step 2** Convert the decimal part of the quotient to minutes by multiplying it by 60.

$$\begin{array}{r} .11 \text{ Hour} \\ \times 60 \text{ Minutes per hour} \\ \hline 6.60 \approx 7 \text{ minutes} \end{array}$$

Emily Elizabeth's trip should take about 9 hours and 7 minutes.

Directions Find the travel time for each of these trips.
Round your answer to the nearest minute.

	Distance	Average Speed	Estimated Time for Trip
1.	110 miles	27 mph	_____
2.	176 miles	57 mph	_____
3.	342 miles	50 mph	_____
4.	85 miles	35 mph	_____
5.	469 miles	55 mph	_____
6.	308 miles	51 mph	_____
7.	232 miles	33 mph	_____
8.	455 miles	50 mph	_____
9.	678 miles	45 mph	_____
10.	799 miles	36 mph	_____
11.	403 miles	42 mph	_____
12.	908 miles	46 mph	_____
13.	264 miles	51 mph	_____
14.	108 miles	53 mph	_____
15.	55 miles	38 mph	_____
16.	770 miles	46 mph	_____



Computing Travel Time

EXAMPLE

Emily Elizabeth plans a trip of 955 miles. She expects to be able to average 55 miles per hour. How much time should Emily Elizabeth expect the trip to take?

- Step 1** Divide the miles by the average speed.
Round to the nearest hundredth of an hour.

$$\begin{array}{r} 17.36 \text{ Hours} \\ 55 \overline{) 955.00} \text{ Miles} \end{array}$$

- Step 2** Convert the decimal part of the quotient to minutes by multiplying it by 60.

$$\begin{array}{r} .36 \text{ Hour} \\ \times 60 \text{ Minutes per hour} \\ \hline 21.6 \approx 22 \text{ minutes} \end{array}$$

Emily Elizabeth's trip should take about 17 hours and 22 minutes.

Directions Find the travel time for each of these trips.
Round your answer to the nearest minute.

	Distance	Average Speed	Estimated Time for Trip
1.	140 miles	20 mph	_____
2.	175 miles	50 mph	_____
3.	342 miles	50 mph	_____
4.	85 miles	35 mph	_____
5.	469 miles	55 mph	_____
6.	308 miles	51 mph	_____
7.	232 miles	33 mph	_____
8.	455 miles	50 mph	_____
9.	678 miles	45 mph	_____
10.	792 miles	36 mph	_____
11.	403 miles	42 mph	_____
12.	908 miles	46 mph	_____



Buying Gasoline

EXAMPLE

Barry has \$15.00. He wants to buy gas at \$0.99⁹. How many gallons can he buy?

Step 1 Write the price of the gas as a decimal.

$$\$0.99^9 = \$0.999$$

Step 2 Divide the amount of money by the price of one gallon of gas.

$$\begin{array}{r} 15.01 \sim 15.0 \text{ gallons} \\ .999 \overline{) 15.000 \ 00} \end{array}$$

Barry is able to purchase 15.0 gallons.

Directions Find the amount of gas you can buy with each amount of money. Round your answer to the nearest tenth of a gallon.

	Amount of Money	Cost per Gallon of Gasoline	Gallons of Gas
1.	\$5	\$1.029	_____
2.	\$25	\$1.159	_____
3.	\$35	\$1.199	_____
4.	\$10	\$1.059	_____
5.	\$15	\$1.079	_____
6.	\$25	\$1.189	_____
7.	\$13	\$.889	_____
8.	\$22	\$1.219	_____
9.	\$12	\$1.049	_____
10.	\$16	\$1.129	_____
11.	\$21	\$1.149	_____
12.	\$20	\$1.129	_____
13.	\$30	\$1.319	_____
14.	\$24	\$1.279	_____
15.	\$18	\$1.089	_____
16.	\$8	\$1.219	_____
17.	\$16	\$1.139	_____
18.	\$29	\$1.199	_____
19.	\$33	\$1.209	_____
20.	\$22	\$1.099	_____



Buying Gasoline

EXAMPLE Simone has \$10.00. She wants to buy gas at \$1.09⁹.
How many gallons can she buy?

Step 1 Write the price of the gas as a decimal.

$$\$1.09^9 = 1.099$$

Step 2 Divide the amount of money
by the price of one gallon of gas.

$$\begin{array}{r} 9.09 \approx 9.1 \text{ gallons} \\ 1.099 \overline{)10.00} \end{array}$$

Simone may purchase 9.1 gallons.

Directions Find the amount of gas you can buy with each amount of money.
Round your answer to the nearest tenth of a gallon.

	Amount of Money	Cost per Gallon of Gasoline	Gallons of gas
1.	\$10	\$1.08 ⁹	_____
2.	\$20	\$1.23 ⁹	_____
3.	\$50	\$.99 ⁹	_____
4.	\$14	\$1.35 ⁹	_____
5.	\$25	\$1.17 ⁹	_____
6.	\$5	\$1.08 ⁹	_____
7.	\$3	\$.98 ⁹	_____
8.	\$12	\$1.01 ⁹	_____
9.	\$10	\$1.02 ⁹	_____
10.	\$15	\$1.42 ⁹	_____
11.	\$25	\$1.34 ⁹	_____
12.	\$22	\$1.02 ⁹	_____
13.	\$40	\$1.11 ⁹	_____
14.	\$26	\$1.07 ⁹	_____
15.	\$10	\$1.28 ⁹	_____
16.	\$9	\$1.31 ⁹	_____
17.	\$16	\$1.11 ⁹	_____



Buying Gasoline

EXAMPLE

Simone has \$10.00. She wants to buy gas at \$1.09⁹.
How many gallons can she buy?

Step 1 Write the price of the gas as a decimal. $\$1.09^9 = 1.099$

Step 2 Divide the amount of money
by the price of one gallon of gas.
$$\begin{array}{r} 9.09 \\ 1.099 \overline{) 10.00} \end{array} \approx 9.1 \text{ gallons}$$

Simone may purchase 9.1 gallons.

Directions Find the amount of gas you can buy with each amount of money.
Round your answer to the nearest tenth of a gallon.

	Amount of Money	Cost per Gallon of Gasoline	Gallons of gas
1.	\$10.00	\$1.18 ⁹	_____
2.	\$20.00	\$1.33 ⁹	_____
3.	\$50.00	\$0.99 ⁹	_____
4.	\$14.00	\$1.35 ⁹	_____
5.	\$25.00	\$1.17 ⁹	_____
6.	\$5.00	\$1.08 ⁹	_____
7.	\$31.00	\$0.98 ⁹	_____
8.	\$12.00	\$1.01 ⁹	_____
9.	\$10.00	\$1.02 ⁹	_____
10.	\$15.00	\$1.42 ⁹	_____
11.	\$25.00	\$1.34 ⁹	_____
12.	\$22.00	\$1.02 ⁹	_____
13.	\$40.00	\$1.11 ⁹	_____
14.	\$26.00	\$1.47 ⁹	_____



Repairing Cars

EXAMPLE

Erika Jones had the PCV valve and rear wheel bearings replaced on her car. To find her total bill, you must:

Step 1: Fill in the parts and work done.

Step 2: Find the price of parts and hours worked from the flat rate chart.

Step 3: Multiply hours of labor times \$60, and compute the sales tax of 6% on the parts only.

Step 4: Add to find the total bill

NAME <u>Erika Jones</u>				DATE <u>Oct. 23</u>	
ADDRESS <u>3309 Mace St., Baltimore</u>				ZIP CODE <u>21206</u>	
PARTS	\$ PRICE	HOURS	DESCRIPTION	LABOR	
PCV valve	\$7 50	.4	Replace PCV valve	\$24	00
Rear wheel bearings	45 62	1.1	Replace rear wheel bearings	66	00
FRIENDLY MOTORS "SALES, SERVICE, & PARTS" AUTHORIZED DEALER			MECHANICAL LABOR	\$90	00
			PARTS	53	12
			SALES TAX	3	19
			TOTAL	\$146	31

Flat Rate Chart

Time (in hours)	Repairs	Parts	Time (in hours)	Repairs	Parts
.4	Replace PCV valve	\$ 7.50	5.2	Replace clutch	180.80
2.1	Complete tune-up	127.80	1.5	Replace front brake pads	32.95
.5	Align headlights	0	2.5	Install roof rack	126.85
1.7	Fix gas tank leak (sealant)	15.00	.7	Align the front end	0
1.5	Tighten steering wheel	0	.7	Replace muffler, tail pipe	160.00
.7	Recharge air conditioner and check for leaks (refrigerant)	30.00	3.1	Carburetor overhaul	0
			1.1	Replace rear wheel bearings	45.62

Directions Fill out a car repair order form for this repair. Charge \$60 per hour for labor and 6% sales tax. Do not charge sales tax on labor. Make up address and date.

- Frank Davis
Replace PCV valve
Replace clutch
Replace front brake pads
Complete tuneup

NAME _____				DATE _____	
ADDRESS _____				ZIP CODE _____	
PARTS	\$ PRICE	HOURS	DESCRIPTION	LABOR	
FRIENDLY MOTORS "SALES, SERVICE, & PARTS" AUTHORIZED DEALER			MECHANICAL LABOR		
			PARTS		
			SALES TAX		
			TOTAL		

Name _____

Date _____

Period _____

Activity

Chapter 5, Lesson 14

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Repairing Cars

EXAMPLE

Erika Jones had the PCV valve and rear wheel bearings replaced on her car. To find her total bill, you must:

- Step 1** Fill in the parts and work done.
- Step 2** Find the price of parts and hours worked from the flat rate chart.
- Step 3** Multiply hours of labor times \$60, and compute the sales tax of 6% on the parts only.
- Step 4** Add to find the total bill.

NAME <u>Erika Jones</u>			DATE <u>Oct. 23</u>		
ADDRESS <u>3309 Mace St., Baltimore</u>			ZIP CODE <u>21206</u>		
PARTS	\$ PRICE	HOURS	DESCRIPTION	LABOR	
PCV valve	\$7 50	.4	Replace PCV valve	\$24	00
Rear wheel bearings	45 62	1.1	Replace rear wheel bearings	66	00
FRIENDLY MOTORS "SALES, SERVICE, & PARTS" AUTHORIZED DEALER			MECHANICAL LABOR	\$90	00
			PARTS	53	12
			SALES TAX	3	19
			TOTAL	\$146	31

Flat Rate Chart

Time (in hours)	Repairs	Parts	Time (in hours)	Repairs	Parts
.4	Replace PCV valve	\$ 7.50	5.2	Replace clutch	180.80
2.1	Complete tune-up	127.80	1.5	Replace front brake pads	32.95
.5	Align headlights	0	2.5	Install roof rack	126.85
1.7	Fix gas tank leak (sealant)	15.00	.7	Align the front end	0
1.5	Tighten steering wheel	0	.7	Replace muffler, tail pipe	160.00
.7	Recharge air conditioner and check for leaks (refrigerant)	30.00	3.1	Carburetor overhaul	0
			1.1	Replace rear wheel bearings	45.62

Directions Fill out a car repair order form for these repairs. Charge \$60 per hour for labor and 6% sales tax. Do not charge sales tax on labor. Make up addresses and dates.

- Ms. Heather Brunson
Install roof rack
Align the front end
Replace rear wheel bearings
Replace clutch

NAME _____			DATE _____		
ADDRESS _____			ZIP CODE _____		
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FRIENDLY MOTORS "SALES, SERVICE, & PARTS" AUTHORIZED DEALER			MECHANICAL LABOR		
			PARTS		
			SALES TAX		
			TOTAL		



Name _____

Date _____

Period _____

Alternative Activity

Chapter 5, Lesson 14

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Directions Fill out a car repair order form for this repair. Charge \$60 per hour for labor and 6% sales tax. Do not charge sales tax on labor. Make up an address and date.

- Ms. Heather Brunson
Install roof rack
Align the front end
Replace rear wheel bearings

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ADDRESS _____		ZIP CODE _____		
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			PARTS	
			SALES TAX	
			TOTAL	