

# DAFFYNYTION DECODER

Doughnut:  $\overline{0.32}$   $\overline{0.0666}$   $\overline{2.5}$   $\overline{4.26}$   $\overline{5.604}$   $\overline{2.3}$   $\overline{0.13}$   $\overline{2.5}$   $\overline{2.38}$   $\overline{0.0092}$   $\overline{0.94}$   $\overline{0.0666}$

Coffee:  $\overline{0.13}$   $\overline{0.0666}$   $\overline{0.94}$   $\overline{2.5}$   $\overline{0.0092}$   $\overline{5.723}$   $\overline{0.079}$   $\overline{5.718}$   $\overline{70.7}$   $\overline{0.082}$   $\overline{0.27}$

Meteorite:  $\overline{2.5}$   $\overline{46.89}$   $\overline{8.05}$   $\overline{46.95}$   $\overline{2.5}$   $\overline{0.32}$   $\overline{0.94}$   $\overline{4.29}$   $\overline{0.32}$   $\overline{61.3}$   $\overline{0.082}$   $\overline{46.95}$

TO DECODE THESE THREE DAFFYNYTIONS:

Do each exercise below and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

(N)  $4\overline{)9.52}$

(S)  $7\overline{)56.35}$

(E)  $6\overline{)5.64}$

(D)  $9\overline{)2.43}$

(H)  $8\overline{)490.4}$

(Y)  $3\overline{)16.812}$

(I)  $9\overline{)0.738}$

(F)  $5\overline{)0.395}$

(Z)  $25.56 \div 6$

(U)  $282.8 \div 4$

(B)  $1.56 \div 12$

(L)  $\frac{40.026}{7}$

(R)  $\frac{0.1332}{2}$

(K)  $\frac{0.0736}{8}$

(A)  $\frac{122.5}{49}$

(P) Mr. and Mrs. Motor spent 5 nights at the Dew Drop Inn. They paid a total of \$234.75. What was the cost per night?

\$ \_\_\_\_\_

(C) A box containing 18 holiday greeting cards in 3 different designs sold for \$5.76. What was the cost per card?

\$ \_\_\_\_\_

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# What Do You Call a Row of Large Animals Separating Two Yards?

When dividing on a calculator, the quotient often has so many digits that it fills the display. But sometimes it does not. Do you know why?

Your answers for this puzzle will look like those from an 8-digit calculator.

For each exercise, keep dividing until either (a) you have 8 digits in your quotient, or (b) you get a remainder of 0. *Do not round your answer.* Then look for the *last digit* of your answer in the CODE KEY and notice the letter below it. Write this letter in the box containing the number of the exercise.

①  $7 \overline{)37}$

②  $6 \overline{)163}$

③  $4 \overline{)15.9}$

④  $24 + 19$

⑤  $3.97 + 8$

⑥  $\frac{43}{12}$

⑦  $\frac{9.5}{2}$

⑧  $\frac{200}{13}$

|                     |                       |   |   |   |   |   |   |   |   |                  |   |   |   |   |   |   |   |
|---------------------|-----------------------|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|
| <b>Code<br/>Key</b> | last digit of answer: |   |   |   |   |   |   |   |   | exercise number: |   |   |   |   |   |   |   |
|                     | 1                     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 7                | 2 | 5 | 4 | 8 | 1 | 6 | 3 |
|                     | U                     | N | C | S | E | L | P | F | A |                  |   |   |   |   |   |   |   |

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# What Is Used For Astronaut Sandwiches?

Do each exercise and find your answer in the rocket. Cross out the letter next to each correct answer. When you finish, the answer to the title question will remain.

For exercises 1–5, round to the nearest tenth.

①  $8 \overline{)29.85}$

②  $5 \overline{)31.47}$

③  $4 \overline{)18.1}$

④  $656 \div 9$

⑤  $3.6 \div 17$

For exercises 6–10, round to the nearest hundredth or nearest cent.

⑥  $6 \overline{)31.4}$

⑦  $7 \overline{)58}$

⑧  $3 \overline{)182}$

⑨  $3.875 \div 8$

⑩  $\$46.96 \div 15$

For exercises 11–14, round to the nearest thousandth.

⑪  $66.7 \div 9$

⑫  $31 \div 6$

⑬  $\frac{5.6}{24}$

⑭  $\frac{22}{7}$

⑮ A monthly magazine charges \$38.50 for a one-year subscription (12 issues). What is the cost for each issue? (Round to the nearest cent.)

⑯ Ms. Shoe had 51 ounces of Nuclear Fizz punch to share among her 8 children. How many ounces did each child get? (Round to the nearest 0.1 ounce.)

|   |        |
|---|--------|
| D | 8.29   |
| O | 6.3    |
| T | 15.152 |
| O | 0.2    |
| A | 5.37   |
| F | \$3.21 |
| S | 3.7    |
| E | 4.9    |
| R | 7.411  |
| B | 60.67  |
| M | 3.158  |
| H | 73.4   |
| T | 0.233  |
| U | 5.23   |
| C | 7.426  |
| N | 8.13   |
| O | 0.48   |
| C | 72.9   |
| U | \$3.29 |
| S | 6.4    |
| A | 60.74  |
| E | 5.167  |
| I | 4.5    |
| L | 6.7    |
| S | 3.143  |
| P | \$3.13 |



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# What Do You Call a Telephone for Lizards?

Divide mentally, write your answer, and then mark it in the answer columns. For each set of exercises, there is one extra answer. Write the letter of this answer in the corresponding box at the right.

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 2 | 5 | 3 | 7 | 1 | 8 | 4 | 6 |
|---|---|---|---|---|---|---|---|

|   |   |  |   |
|---|---|--|---|
| 1 | $32.7 \div 10$<br>$32.7 + 100$<br>$32.7 \div 1,000$<br>$327 \div 10$                                  | <p>5</p> <p> <input type="radio"/> O 32.7    <input type="radio"/> L 3.27<br/> <input type="radio"/> D 327    <input type="radio"/> B 0.327<br/> <input type="radio"/> G 0.0327                 </p>       | <p> <math>1,000 \overline{)0.3}</math><br/> <math>1,000 \overline{)3.3}</math> </p> <p> <input type="radio"/> T 0.003    <input type="radio"/> G 0.0033<br/> <input type="radio"/> L 3.3    <input type="radio"/> R 0.033<br/> <input type="radio"/> N 0.0003                 </p>  |
| 2 | $0.88 \div 10$<br>$880 \div 100$<br>$8.8 + 1,000$<br>$88,000 + 100$                                   | <p>6</p> <p> <input type="radio"/> T 8.8    <input type="radio"/> A 0.88<br/> <input type="radio"/> V 880    <input type="radio"/> N 0.088<br/> <input type="radio"/> S 0.0088                 </p>        | <p> <math>\frac{781.5}{10}</math><br/> <math>\frac{78.15}{100}</math><br/> <math>\frac{781.5}{1,000}</math> </p> <p> <input type="radio"/> L 781.5    <input type="radio"/> T 78.15<br/> <input type="radio"/> D 7.815    <input type="radio"/> N 0.7815<br/> <input type="radio"/> K 0.07815                 </p>  |
| 3 | $946.6 \div 10$<br>$94.66 + 100$<br>$9,466 \div 1,000$<br>$94.66 + 1,000$                             | <p>7</p> <p> <input type="radio"/> E 946.6    <input type="radio"/> I 0.9466<br/> <input type="radio"/> H 9.466    <input type="radio"/> U 94.66<br/> <input type="radio"/> R 0.09466                 </p> | <p> <math>\frac{43.4}{100}</math><br/> <math>\frac{34.4}{1,000}</math><br/> <math>\frac{3.44}{10}</math><br/> <math>\frac{434}{10}</math> </p> <p> <input type="radio"/> N 43.4    <input type="radio"/> S 0.0344<br/> <input type="radio"/> A 0.434    <input type="radio"/> L 0.344<br/> <input type="radio"/> P 4.34                 </p>                    |
| 4 | $100 \overline{)5.08}$<br>$1,000 \overline{)5.08}$<br>$10 \overline{)50.8}$<br>$10 \overline{)5,080}$ | <p>8</p> <p> <input type="radio"/> E 508    <input type="radio"/> O 0.0508<br/> <input type="radio"/> A 50.8    <input type="radio"/> P 5.08<br/> <input type="radio"/> M 0.00508                 </p>     | <p> <math>\frac{601.07}{10}</math><br/> <math>\frac{601.07}{100}</math><br/> <math>\frac{60.107}{1,000}</math><br/> <math>\frac{60,107}{100}</math> </p> <p> <input type="radio"/> W 60.107    <input type="radio"/> I 0.60107<br/> <input type="radio"/> U 601.07    <input type="radio"/> R 6.0107<br/> <input type="radio"/> O 0.060107                 </p> |

# How Much Does the Average Dragon Weigh?

Do each exercise mentally and find your answer at the right. Write the letter of the answer in the box containing the number of the exercise.

|                    |                      |         |          |
|--------------------|----------------------|---------|----------|
| ① $8.54 \times 10$ | ③ $\frac{8.54}{100}$ | ⑦ 0.854 | ① 8.54   |
| ② $8.54 \div 10$   |                      | ⑧ 85.4  | ② 0.0854 |

|                     |                        |         |          |
|---------------------|------------------------|---------|----------|
| ④ $31.7 \div 100$   | ⑥ $\frac{31.7}{1,000}$ | ③ 3,170 | ③ 0.0317 |
| ⑤ $31.7 \times 100$ |                        | ④ 0.317 | ④ 3.17   |

|                 |                     |       |         |
|-----------------|---------------------|-------|---------|
| ⑦ 0.94 of 10    | ⑨ $\frac{0.94}{10}$ | ⑤ 94  | ⑤ 0.094 |
| ⑧ 0.94 of 1,000 |                     | ⑥ 940 | ⑥ 9.4   |

|                      |                         |        |           |
|----------------------|-------------------------|--------|-----------|
| ⑩ $5,280 \div 100$   | ⑫ $\frac{5,280}{1,000}$ | ⑦ 5.28 | ⑦ 52.8    |
| ⑪ $5,280 \times 100$ |                         | ⑧ 528  | ⑧ 528,000 |

|                          |                         |           |             |
|--------------------------|-------------------------|-----------|-------------|
| ⑬ $3.14159 \times 1,000$ | ⑮ $\frac{3.14159}{100}$ | ⑨ 314.159 | ⑨ 0.0314159 |
| ⑭ $3.14159 \times 10$    |                         | ⑩ 31.4159 | ⑩ 3,141.59  |

|                   |                         |          |            |
|-------------------|-------------------------|----------|------------|
| ⑯ 0.627 of 100    | ⑰ $\frac{0.627}{1,000}$ | ⑪ 0.0627 | ⑪ 0.00627  |
| ⑲ 0.627 $\div$ 10 |                         | ⑫ 62.7   | ⑫ 0.000627 |

|                         |                       |             |                |
|-------------------------|-----------------------|-------------|----------------|
| ⑳ $\$3.50 \times 10$    | ⑳ $\frac{\$3.50}{10}$ | ⑬ $\$35.00$ | ⑬ $\$350.00$   |
| ㉑ $\$3.50 \times 1,000$ |                       | ⑭ $\$0.35$  | ⑭ $\$3,500.00$ |

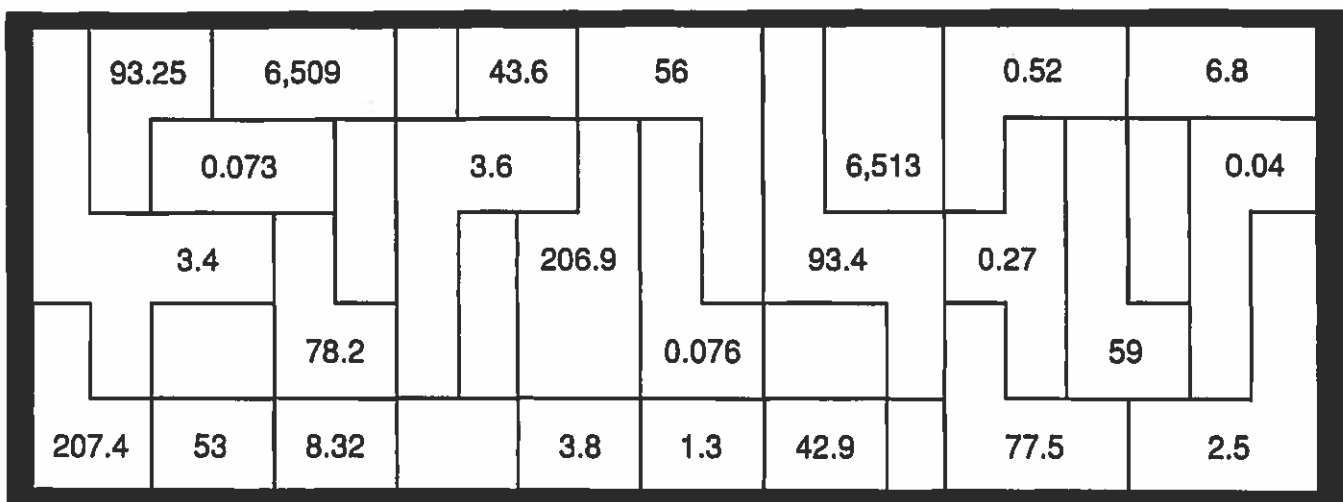
|                      |                       |         |           |
|----------------------|-----------------------|---------|-----------|
| ㉒ $66.66 \div 1,000$ | ㉔ $\frac{66.66}{100}$ | ⑮ 6,666 | ⑮ 0.6666  |
| ㉓ $100 \times 66.66$ |                       | ⑯ 666.6 | ⑯ 0.06666 |

|                    |                     |         |         |
|--------------------|---------------------|---------|---------|
| ㉕ $7 \times 10$    | ㉗ $\frac{7}{1,000}$ | ⑰ 0.007 | ⑰ 7,000 |
| ㉖ $1,000 \times 7$ |                     | ⑱ 70    | ⑱ 0.7   |

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

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# HOW WOULD YOU DESCRIBE WANDA FARR AFTER SHE MET 3 LIONS DEEP IN THE JUNGLE?



Do the exercises below and find your answers in the rectangle. Shade in each area containing a correct answer. You will discover what happened to Wanda!

①  $0.4 \overline{)1.52}$       ②  $0.9 \overline{)0.243}$       ③  $1.2 \overline{)63.6}$       ④  $0.07 \overline{)0.476}$

⑤  $0.03 \overline{)1.287}$       ⑥  $0.05 \overline{)0.416}$       ⑦  $0.008 \overline{)0.62}$       ⑧  $0.006 \overline{)1.2444}$

⑨  $2.08 + 1.6$       ⑩  $0.1092 + 0.21$       ⑪  $58.581 + 0.009$

⑫  $\frac{0.24}{0.096}$       ⑬  $\frac{0.038}{0.5}$       ⑭  $\frac{7.46}{0.08}$       ⑮  $\frac{1.316}{32.9}$

⑯ A package of M&M's® candies contains 5 colors of M&M's and weighs 1.68 oz. If each candy weighs 0.03 oz, how many are in the package?

⑰ A machine uses 2.5 liters of fuel each hour it runs. Its fuel tank was filled with 10 L, but 1.5 L have already been used. How many more hours will the machine run?

# Why Didn't the Mechanical Skunk Have a Bad Smell?



Find each quotient. Round to the nearest hundredth. Find your answer at the bottom of the page and cross out the letters above it. When you finish, the answer to the title question will remain.

1  $7\overline{)9.375}$

2  $4\overline{)27.5}$

3  $0.6\overline{)4.43}$

4  $0.9\overline{)0.51}$

5  $0.05\overline{)1.622}$

6  $0.03\overline{)0.148}$

7  $0.007\overline{)0.0435}$

8  $0.008\overline{)0.205}$

9  $0.4\overline{)0.019}$

10  $6\overline{)5}$

| HE   | TH   | IT   | IS    | WA   | LK    | SO   | ON   | SH   | UT   | UP   | OF    | FO   | OD   | PO   | OR    | ED   |
|------|------|------|-------|------|-------|------|------|------|------|------|-------|------|------|------|-------|------|
| 4.93 | 6.88 | 4.87 | 25.63 | 6.35 | 32.44 | 7.46 | 1.34 | 0.83 | 0.07 | 7.38 | 32.52 | 0.05 | 0.86 | 6.21 | 25.58 | 0.57 |

# DO YOU HEAR ABOUT ...

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | B | C | D | E | F |
| G | H | I | J | K | L |
| M | N | O | P | ? | ? |
|   |   |   |   | ? | ? |

Do each exercise. Round your answer as indicated and find it in the appropriate answer column. Notice the word under the answer. Write this word in the box containing the letter of the exercise.

### Answers A–H:

|                      |
|----------------------|
| 16.3<br>LOTS         |
| 4.6<br>THOUGHT       |
| 58.42<br>PLAYERS     |
| 3.3<br>SOME          |
| 1.3<br>WHO           |
| 7.1<br>PEOPLE        |
| 58.48<br>INSTRUMENTS |
| 2.9<br>THE           |
| 9.78<br>BAND         |
| 16.8<br>THAT         |
| 1.5<br>FROM          |
| 7.3<br>DRUMMER       |
| 4.9<br>HAVE          |
| 9.73<br>PERCUSSION   |

Round to the nearest tenth.

(A)  $6 \overline{)17.2}$

(B)  $0.9 \overline{)6.58}$

(C)  $0.4 \overline{)0.515}$

(D)  $7 \overline{)32}$

(E)  $0.08 \overline{)1.34}$

(F)  $1.5 \overline{)5}$

Round to the nearest hundredth or nearest cent.

(G)  $3 \overline{)29.2}$

(H)  $0.7 \overline{)40.933}$

(I)  $0.06 \overline{)0.5077}$

(J)  $8 \overline{)3}$

(K)  $5 \overline{)\$219.82}$

(L)  $12 \overline{)\$84.80}$

Round to the nearest thousandth.

(M)  $9 \overline{)55.43}$

(N)  $0.018 \overline{)0.4}$

Solve.

(O) A jet travels 0.4 mile for each gallon of fuel. It has enough fuel left to travel 14.5 miles. How many gallons of fuel does it have? (Round to the nearest 0.1 gallon.)

(P) When you buy a dozen bagels for \$2.39, you get an additional bagel free. What is your cost per bagel? (Round to the nearest cent.)

### Answers I–P:

|                    |
|--------------------|
| 6.159<br>BUT       |
| \$0.15<br>DRUMS    |
| 36.3<br>ARE        |
| 0.38<br>DIFFICULT  |
| \$43.91<br>MUSICAL |
| \$7.07<br>PLAY     |
| 6.154<br>WITH      |
| 8.46<br>ARE        |
| 22,222<br>OTHERS   |
| \$7.02<br>BEAT     |
| \$0.18<br>CYMBAL   |
| 8.49<br>HAVE       |
| \$43.96<br>TO      |
| 36.9<br>STICKS     |

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# What Did The Farmer Say To the Cow Late at Night?

Use compatible numbers to estimate each quotient. Think of numbers that are easy to divide and close to the actual numbers. Under each exercise, circle the letter of the best estimate. Write this letter in the box containing the number of the exercise.

①  $60.54 \div 29$

H about 20

E about 2

②  $322.7 \div 8$

I about 40

O about 4

③  $35.7 \div 3.1$

K about 120

T about 12

④  $81.9 \div 4.2$

A about 20

Y about 200

⑤  $43.033 \div 6$

E about 7

N about 9

⑥  $3,520 \div 71.4$

P about 5

T about 50

⑦  $\frac{14.66}{5.108}$

U about 3

J about 8

⑧  $\frac{747.5}{9.8}$

I about 75

W about 750

⑨  $\frac{6,190}{10.3}$

C about 60

S about 600

⑩  $\frac{32.625}{99.4}$

E about 0.3

H about 0.5

⑪  $\frac{4.53}{0.5}$

T about 9

L about 90

⑫  $\frac{11.94}{0.307}$

I about 40

O about 70

⑬  $\frac{1,630}{81.8}$

G about 2

B about 20

⑭  $\frac{23.17}{3.95}$

P about 6

N about 9

⑮ Max Bogg drove 158.5 miles at an average speed of 40 miles per hour. About how many hours did the trip take?

M about 4 h

K about 7 h

⑯ Patty Wack drove 311 miles and used 10.4 gallons of gasoline. About how many miles did she travel on each gallon?

V about 20 mi

R about 30 mi

⑰ Heavy Metals, Inc. bought 59.2 pounds of 12-gauge steel for \$293.04. About how much did they pay per pound?

D about \$5

R about \$8

⑱ Buff Hunk worked 15 days and earned \$798.25. He earns \$7.75 an hour. About how many hours did he work?

L about 70 h

S about 100 h

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

# Math Without Computing

$3 \times 0.25$

$3 \div 0.25$

$0.25 \div 3$

$20 \times 0.5$

$20 \div 0.5$

$0.5 \div 20$

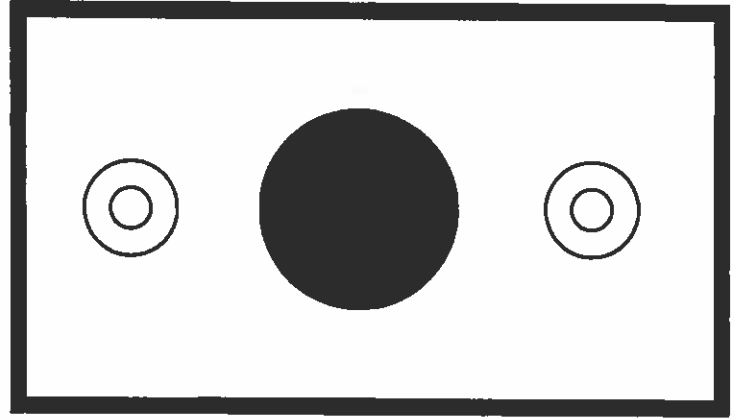
Each of these problems can be solved by doing one of the computations in the box above. Next to each problem, write the computation needed to solve it.

- 1 A running track is 0.25 mi long. How many laps around the track are necessary to run 3 mi?
- 2 Osgood bought 20 candy bars at \$0.50 each. How much did he pay for the candy bars?
- 3 Bubbles Mirth and two of her friends bought a bottle containing 0.25 L of root beer. If they divide it equally, how much will each person get?
- 4 Each super chocolate kiss weighs 0.5 oz. How many kisses can be made from 20 oz of chocolate?
- 5 Paper Plus is having a sale on school supplies. The discount is 0.25 of the regular price. How much would you save on a \$3 notebook?
- 6 A pack of construction paper is 0.5 cm thick. If there are 20 sheets of paper in the pack, how thick is each sheet?
- 7 Ms. Burger bought a 3-pound package of ground beef. She divided it into 0.25-pound patties. How many patties did she make?
- 8 Three diamonds together weigh 0.25 carat. What is the average weight of the diamonds?
- 9 It took Rolex 20 days to write his dinosaur report. He wrote half a page each day. How long was the report?
- 10 Twenty pounds of cashews are packed into cans. Each can holds half a pound. How many cans are filled?
- 11 What is the cost of 3 pounds of potatoes at 25¢ per pound?
- 12 A scale model of a sailboat is 20 cm long. Each centimeter on the model is 0.5 in on the actual boat. How long is the actual boat?
- 13 An antelope ran 3 miles in 0.25 hour. What was its average speed in miles per hour?
- 14 A string of outdoor lights is supported by 21 equally-spaced posts. If the distance from the first post to the last post is 0.5 km, how far apart are the posts?
- 15 A window is made using 2 panes of glass separated by an insulating air space. The glass is 0.25 cm thick, and the separation between panes is also 0.25 cm. How thick is the window?
- 16 A math workbook is 0.5 in. thick. How many of these books will fit on a shelf that is 20 in. long?

# What Is the Title?

TO DECODE THE TITLE  
OF THIS PICTURE:

Do each exercise and find your answer  
in the appropriate answer column.  
Notice the symbol next to the answer.  
Each time this symbol appears in the  
code, write the letter of the exercise  
above it.



CODED TITLE:

z z ¢ ¢ \$ \$ \ \ # # = = ? ? \* \* [ ] ¢ ¢ :: ( ) > < ¢ ¢ \* \* // = = @ @ & & [ ] > < x x // //

|| = = - - - - = = @ @ & & )( x x < > + + = = :: :: = = || " " // z z ][ - - % % ¢ ¢ z z

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| Answers for W – N: |        |
|--------------------|--------|
| [ ]                | 67.66  |
| & &                | 0.95   |
| * *                | 32.25  |
| x x                | 36.63  |
| )(                 | 0.5385 |
| " "                | 2.508  |
|                    | 4.75   |
| < >                | 0.98   |
| ::                 | 2.8    |
| % %                | 22.777 |
| \ \                | 4.66   |
| @ @                | 13.6   |
| ? ?                | 63.86  |
| ][                 | 37.53  |
| \$ \$              | 0.5175 |
| ( )                | 24.677 |

(W)  $7.2 + 16.6 + 8.45$

(U)  $4.18 \times 0.6$

(A)  $0.33 + 33 + 3.3$

(F)  $7 \overline{)19.6}$

(C)  $38 \div 8$

(M)  $0.83 \times 0.12$

(T)  $0.6 \overline{)3.24}$

(O)  $\frac{16.7}{0.5}$

(I)  $(2.5 + 0.187) \times 10$

(S) The paper feed on a copying machine has room for a stack of paper 4.0 cm high. If 10 sheets of paper are 0.08 cm thick, how many sheets will fit? (HINT How thick is 1 sheet?)

(H)  $32.067 - 9.29$

(P)  $57.5 \times 0.009$

(E)  $90 - 26.14$

(G)  $4 \overline{)3.8}$

(N)  $340 \div 25$

(D)  $0.7 \times 0.6 \times 0.5$

(V)  $0.09 \overline{)1.863}$

(B)  $\frac{2.6}{0.16}$

(L)  $(100 - 19.2) \div 100$

| Answers for M – S: |        |
|--------------------|--------|
| # #                | 20.7   |
| ][                 | 12.7   |
|                    | 0.0996 |
| < >                | 16.33  |
| - -                | 500    |
| ¢ ¢                | 33.4   |
| \ \                | 320    |
| = =                | 26.87  |
| z z                | 5.4    |
| ( )                | 21.5   |
| @ @                | 5.9    |
| [ ]                | 0.0876 |
| > <                | 16.25  |
| + +                | 0.21   |
| )(                 | 34.7   |
| //                 | 0.808  |



# Who Put the Periods in the Dr. Seuss Books?

Solve each problem below. (When you divide, unless otherwise stated, round the quotient to the nearest tenth.) Find each answer at the bottom of the page and cross out the letters above it. When you finish, the answer to the title question will remain.

1. The Factor family drove from Arizona to Malibu, California, to spend a week at the beach. They drove 421 miles in 9 hours. What was their average speed in miles per hour?  
\_\_\_\_\_ mph

2. After driving three hours, the Factors stopped for lunch. The bill for 4 hamburgers and 4 milkshakes was \$12.65. How much change did Ms. Factor receive from a \$20 bill?  
\$ \_\_\_\_\_

3. Mr. Factor bought 9.8 gallons of gasoline at \$1.15 a gallon. How much did he pay for the gasoline?  
\$ \_\_\_\_\_

4. The Factors rented a condominium about 3 blocks from the beach for \$127.50 per night. If they stayed 6 nights, how much did they pay for the condominium?  
\$ \_\_\_\_\_

5. One night Ms. Factor baked chocolate chip cookies. She used a 20-ounce package of cookie dough to make 3 dozen cookies. What was the average weight of each cookie?  
\_\_\_\_\_ oz

6. One afternoon at the beach, Jim and Julie Factor buried Mr. Factor with sand. They used 45 pails of sand to do the job. If a pail holds 6.5 pounds of sand, how many pounds of sand were poured on Mr. Factor?  
\_\_\_\_\_ lb

7. One evening Julie Factor went running on the beach. She ran 3.4 miles in 40 minutes. What was her average time for each mile?  
\_\_\_\_\_ min

8. On 4 days Jim Factor went swimming in the ocean. The chart shows how far he swam each day. How far did he swim altogether?

|        |        |          |         |
|--------|--------|----------|---------|
| Sunday | 1.5 mi | Thursday | 1.75 mi |
| Monday | 2 mi   | Saturday | 0.5 mi  |

\_\_\_\_\_ mi

9. One day the Factors went deep-sea fishing. Mr. Factor caught a fish that weighed 8.75 pounds. Julie caught one that weighed 10.3 pounds. How much heavier was Julie's fish?  
\_\_\_\_\_ lb

10. The Factors shot 5 rolls of film with 36 exposures on each roll. It cost \$14.85 to process each roll. How much did it cost for each exposure? (Round to the nearest cent.)  
\$ \_\_\_\_\_

11. Their favorite photograph was of Jim Factor falling off a surfboard. The original print was 3.5 inches wide and 5 inches long, but they had it blown up to poster size. If the poster was 6.2 times wider than the photo, how wide was it?  
\_\_\_\_\_ in.

|       |      |     |      |      |      |     |      |       |     |      |       |      |      |      |       |
|-------|------|-----|------|------|------|-----|------|-------|-----|------|-------|------|------|------|-------|
| TH    | DR   | EY  | HI   | GH   | RE   | SD  | SP   | OT    | UP  | IN   | TE    | XT   | CA   | RS   | EN    |
| 11.27 | 5.75 | 0.6 | 14.7 | 21.7 | 46.8 | 710 | 0.41 | 271.5 | 765 | 11.8 | 10.97 | 1.55 | 7.35 | 0.48 | 292.5 |

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# Where Do Generals Keep Their Armies?

Solve each problem below and find your solution in the answer column. Write the letter of the answer in each box containing the number of the problem.

- ① Daphne bought 3 paintbrushes at \$4.25 each, an easel for \$30.00, and 8 tubes of paint at \$2.95 each. How much money did she spend altogether?
- ② Roberto needs 10 kilograms of clay for a ceramics project. He already has three pieces that weigh 1.3 kg, 2.4 kg, and 0.9 kg. How much more clay does he need?
- ③ Sing Lu jogs around a park near her house 3 times a week. The distance around the park is 0.8 mile. How many laps around the park are necessary to run 6 miles?
- ④ Karen's hobby is chemistry. For one experiment she used 3 liters of water and 3 empty beakers. She poured 0.7 L into the first beaker and twice that amount into the second. How much water was left for the third beaker?
- ⑤ Mia makes decorative candies by pouring melted chocolate into molds. Each mold holds 0.4 oz of chocolate. Mia bought a 20-ounce bag of chocolate but has already used 10.4 oz. How many candies can she make with the chocolate she has left?
- ⑥ Luis bought two pieces of wax to make candles. One piece weighed 3.49 kg, and the other weighed 4.71 kg. If wax costs \$1.80 per kg, how much did Luis spend altogether?
- ⑦ Keo's model airplane uses 0.03 L of fuel each minute it flies. If the fuel tank holds 0.5 L, how long can the plane fly without refueling? (Round to the nearest 0.1 minute.)
- ⑧ A scale model of a train has an engine that is 17.2 cm long and 10 cars that are each 13.5 cm long. Each centimeter on the model represents 0.8 m on the actual train. How long is the actual train?
- ⑨ Roger made a leather belt in crafts class. He attached a buckle at one end and punched 5 equally spaced holes at the other. If the distance between the first hole and last hole is 10 cm, how far apart are the holes?

- \*      Answers
- \*      (G) 1.6 L
  - \*      (W) 4.9 kg
  - \*      (V) 24
  - \*      (D) 18
  - \*      (H) 16.7 min
  - \*      (P) 124.66 m
  - \*      (T) \$66.35
  - \*      (E) 2.5 cm
  - \*      (F) 9
  - \*      (N) 0.9 L
  - \*      (O) 1.8 cm
  - \*      (L) 5.4 kg
  - \*      (I) \$14.76
  - \*      (K) \$63.45
  - \*      (S) 121.76 m
  - \*      (A) 15.3 min
  - \*      (R) 7.5
  - \*      (U) \$17.66

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|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 4 | 1 | 7 | 9 | 6 | 3 | 8 | 2 | 9 | 9 | 5 | 6 | 9 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

# What Should You Eat Somewhere Over the Rainbow?

Decide whether you would choose mental math, estimation, or a calculator to solve each problem. CIRCLE the letter in the appropriate column next to the problem.

Then solve the problem. Find the answer at the bottom of the page and write the letter you circled under it.

Choose: M mental math, E estimation, or C calculator

|          |  | M | E | C |
|----------|--|---|---|---|
| <b>1</b> | It takes Saturn 29.464 years to revolve around the sun. It takes Neptune 164.79 years. How much longer does it take Neptune to revolve around the sun?<br><span style="float: right;">_____ yr</span>                                    | V | F | A |
| <b>2</b> | There are 5,280 feet in a mile. A jet is flying at an altitude of 33,400 feet. To the nearest 0.1 mi, how many miles high is the jet?<br><span style="float: right;">_____ mi</span>   | D | R | E |
| <b>3</b> | There are 1,000 meters in a kilometer. A jet is flying at an altitude of 9,700 meters. To the nearest 0.1 km, how many kilometers high is the jet?<br><span style="float: right;">_____ km</span>  | P | G | C |
| <b>4</b> | If an average 7th grade student weighs 91 pounds and Hugo the Elephant weighs 18,130 pounds, about how many average 7th grade students would be needed to equal the weight of Hugo?<br><span style="float: right;">_____</span>          | N | W | F |
| <b>5</b> | Mr. Muckworth earned \$26,450 last year. He worked an average of 7.5 hours a day for 236 days. How much did he earn for each hour of work? (Round to the nearest cent.)<br><span style="float: right;">\$ _____</span>                   | C | R | I |
| <b>6</b> | Einstein Middle School ordered pencils embossed with the school name and atom logo. The school ordered 720 pencils at 9.8¢ per pencil. About how much did the pencils cost?<br><span style="float: right;">\$ _____</span>               | G | Y | S |
| <b>7</b> | <b>WORLD RECORD:</b> Peter Dowdeswell ate 100 yards of spaghetti in record time. It took him an average of only 0.217 second for each yard. How long did it take him to eat the spaghetti?<br><span style="float: right;">_____ s</span> | P | L | O |
| <b>8</b> | A manufacturer of VCR's reduces the packaged weight of each VCR from 29.3 to 27.8 pounds. On a shipment of 230 VCR's with shipping costs at 55¢ a pound, how much does the company save?<br><span style="float: right;">\$ _____</span>  | A | S | U |
|          | 90    200    135.326    70    18.38    189.75    9.7    87.55    21.7    14.94    6.3    400   |   |   |   |
|          |  |   |   |   |

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