

# Why Is It So Tiring To Do Nothing?

Use front-end *estimation* to estimate each sum. Under each exercise, circle the letter of the better choice. Write this letter in the box containing the number of the exercise.

I. Is \$10.00 enough to buy each set of items? Choose "yes" or "no."

1. 
$$\begin{array}{r} \$4.75 \\ 5.37 \end{array}$$

B yes  
T no

2. 
$$\begin{array}{r} \$7.29 \\ 2.50 \end{array}$$

U yes  
M no

3. 
$$\begin{array}{r} \$1.31 \\ 4.08 \\ 5.15 \end{array}$$

G yes  
A no

4. 
$$\begin{array}{r} \$3.72 \\ 2.24 \\ 4.49 \end{array}$$

I yes  
E no

5. 
$$\begin{array}{r} \$6.20 \\ 1.36 \\ 2.12 \end{array}$$

O yes  
F no

II. Is \$15.00 enough to buy each set of items? Choose "yes" or "no."

6. 
$$\begin{array}{r} \$8.19 \\ 4.64 \\ 3.05 \end{array}$$

L yes  
Y no

7. 
$$\begin{array}{r} \$5.22 \\ 6.10 \\ 3.47 \end{array}$$

D yes  
K no

8. 
$$\begin{array}{r} \$2.98 \\ 7.94 \\ 4.50 \end{array}$$

H yes  
A no

9. 
$$\begin{array}{r} \$6.17 \\ 1.09 \\ 5.00 \\ 2.43 \end{array}$$

T yes  
R no

10. 
$$\begin{array}{r} \$3.25 \\ 3.86 \\ 7.39 \\ 0.95 \end{array}$$

V yes  
N no

III. Choose the better estimate for each sum.

11. 
$$\begin{array}{r} 3,367 \\ + 4,640 \\ \hline \end{array}$$

P about 7,000  
S about 8,000

12. 
$$\begin{array}{r} 7,495 \\ + 7,471 \\ \hline \end{array}$$

I about 14,000  
O about 15,000

13. 
$$\begin{array}{r} 1,267 \\ 5,500 \\ + 4,198 \\ \hline \end{array}$$

H about 10,000  
C about 11,000

14. 
$$\begin{array}{r} 6,012 \\ 9,119 \\ + 3,046 \\ \hline \end{array}$$

R about 18,000  
D about 19,000

15. 
$$\begin{array}{r} 8,254 \\ 1,760 \\ + 5,989 \\ \hline \end{array}$$

L about 15,000  
N about 16,000

16. 
$$\begin{array}{r} 4,512 \\ 3,175 \\ 2,088 \\ + 2,238 \\ \hline \end{array}$$

P about 12,000  
M about 13,000

17. 
$$\begin{array}{r} 6,330 \\ 4,719 \\ 9,444 \\ + 1,526 \\ \hline \end{array}$$

F about 21,000  
S about 22,000

18. 
$$\begin{array}{r} 3,508 \\ 7,653 \\ 933 \\ + 3,891 \\ \hline \end{array}$$

T about 16,000  
W about 17,000

6	12	2		13	8	15	1		11	18	5	16		3	10	7		14	4	17	9
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# Why Did the Ant Wear a Bathing Suit in the Kitchen?

For each exercise, write an estimate of the answer. On the number line under the exercise, find a point near your estimate. Write the letter of the exercise on the number line at that point.

(C)  $21.3 + 37.9$

(I)  $8.75 + 20.8$

(L)  $103.6 - 11.2$

(O)  $16.1 - 5.94$

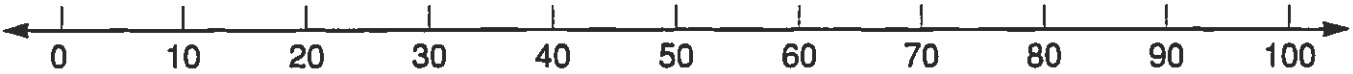
(Q)  $38.7 + 19.3 + 12.5$

(T)  $4.8 + 6.07 + 29$

(D)  $163.8 - 64.92$

(S)  $80.2 - 79.6$

(U) Andy bought a shirt for \$27.95, a pair of pants for \$39.75, and a belt for \$11.50. About how much did he pay for all three items? \$\_\_\_\_\_



(F)  $5.291 + 2.866 + 7.333$

(N)  $13.48 + 16.19 + 0.05$

(E)  $82.9 - 31.25$

(U)  $9.1428 - 3.8571$

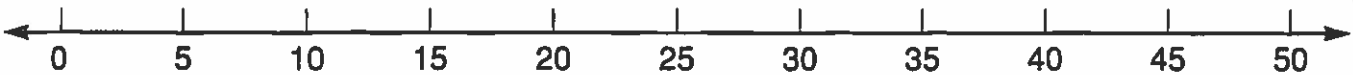
(H)  $21.7 + 4.09 + 7.93 + 12.2$

(O)  $19.49 + 0.018 + 5.37$

(S)  $(6.15 + 3.9) - 9.88$

(R)  $48.75 - 39.03$

(T) Billy Bubble is 139.5 cm tall. His father, Mr. Bubble, is 181.0 cm tall. Estimate the difference in their heights. \_\_\_\_\_ cm



(C)  $2.25 + 3.875$

(V)  $6.93 + 9.04 + 0.07$

(W)  $17.33 - 5.29$

(E)  $26.41 - 7.75$

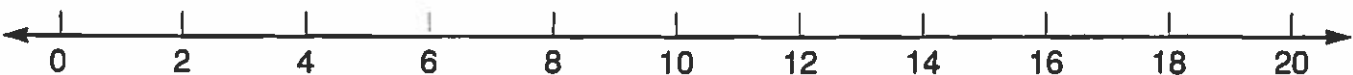
(O)  $3.16 + 0.87 + 1.35 + 4.67$

(M)  $1.925 + 0.0098$

(R)  $(5.2 + 8.9) - 6.08$

(A)  $(162.3 - 151.9) + 3.7$

(I) Ms. Take bought three steaks. They weighed 0.94 pounds, 1.83 pounds, and 1.16 pounds. About how much steak did Ms. Take take? \_\_\_\_\_ lb



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# Did You Hear About ...

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R

Do each exercise and find your answer 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-I:

\$54.76 FROM
13.634 TO
21.365 FLORIDA
\$55.96 WHO
5.81972 BECAUSE
14.4 THE
5.83772 JUST
5.082 TO
12.834 OUT
4.27 FROG
5.162 THAT
0.225 MOVE
0.135 DECIDED
23.265 PARIS

(A)  $51.6$   
 $- 37.2$

(B)  $8.35$   
 $- 4.08$

(C)  $\$72.79$   
 $= 16.83$

(D)  $0.404$   
 $- 0.269$

(E)  $8.272$   
 $- 3.19$

(F)  $0.68$   
 $- 0.455$

(G)  $16.3$   
 $- 2.666$

(H)  $94.$   
 $- 70.735$

(I)  $6.78042$   
 $- 0.9427$

(J)  $47 - 6.38$

(K)  $\$192.70 - \$52.59$

(L)  $\$60 - \$18.83$

(M)  $0.4906 - 0.15772$

(N)  $7.001 - 6.9$

(O)  $5 - 0.05$

(P) Ms. Tulips bought \$56.12 worth of groceries. However, she had coupons worth \$9.85. How much did Ms. Tulips spend for the groceries?

(Q) A U.S. penny weighs 0.1 oz. The smallest hummingbird on record was 2.24 inches long and weighed 0.056 oz. How much less than a penny did the hummingbird weigh?

(R) A team of 4 students is running in a 400-meter relay race. The first 3 runners had times of 14.7 s, 16.2 s, and 15.3 s. What time must the 4th runner beat in order for the total to be less than 60 seconds?

## Answers J-R:

\$46.27 WITH
0.036 oz KETCHUP
0.33288 ORDER
0.044 oz FRENCH
\$140.11 HE
14.4 s PAD
4.95 HAMBURGER
0.34198 HAVE
\$41.17 COULD
0.101 A
40.62 SO
\$141.31 THE
13.8 s FLIES
\$44.37 ROLL

## How Can You Tell Which End of a Worm Is His Head?



Do each exercise mentally, write your answer, and then find it in the corresponding set of answers. Write the letter of the exercise in the box above the answer.

- (C)  $0.3 + 0.4$   
 (I)  $0.8 + 0.1$   
 (E)  $0.4 + 0.6$   
 (M)  $0.5 + 0.7$   
 (I)  $0.8 + 0.8$

- (H)  $3 + 0.3$   
 (L)  $0.7 + 12$   
 (I)  $8 + 0.25$   
 (T)  $0.4 + 0.9$   
 (K)  $0.9 + 0.6$

- (E)  $0.7 - 0.4$   
 (D)  $0.8 - 0.3$   
 (T)  $1 - 0.2$   
 (E)  $1 - 0.6$   
 (I)  $1 - 0.9$

- (N)  $8.7 - 2.2$   
 (H)  $9.3 - 1$   
 (L)  $6.6 - 6$   
 (M)  $4 - 0.1$   
 (D)  $4 - 0.5$

1.3	1.6	0.7	1.5	12.7	1	8.7	3.3	8.25	1.2	1.4	0.9	6.5	6.3	0.8	8.3	0.3	0.2	3.9	0.1	3.5	0.5	0.6	0.4

- (E)  $4.4 + 4.4$   
 (C)  $4.4 + 0.44$   
 (D)  $4.4 + 44$   
 (I)  $8.5 + 0.33$   
 (A)  $52 + 1.7$

- (W)  $66.6 - 0.2$   
 (S)  $66.6 - 2$   
 (N)  $66.6 - 20$   
 (E)  $7.5 - 1$   
 (H)  $7.5 - 0.1$

- (A)  $3.2 + 0.05$   
 (S)  $8 + 1.8$   
 (H)  $77.9 + 2$   
 (D)  $0.25 + 0.25$   
 (H)  $0.25 + 0.75$

- (U)  $5 - 4.9$   
 (E)  $5 - 4.3$   
 (L)  $7.5 - 2.5$   
 (G)  $1 - 0.01$   
 (N)  $1 - 0.99$

53.7	46.6	48.4	6.6	64.6	6.5	8.8	44.4	66.4	7.4	8.83	4.84	79.9	4.5	0.7	0.01	0.5	0.9	5	3.25	0.1	0.99	1	9.8

# CRYPTIC QUIZ

1. Why did the cowboy want to ride a bull in the rodeo?

13 5      6 16 13      2      10 16 1      11 18 4 15 12

2. Where does Santa keep his track and field trophies?

9 7      3 9 12      14 5 17 16      8 2 18 17 13

Do each exercise below. Find your answer in the appropriate answer box and notice the letter next to it. Each time the exercise number appears in the code, write this letter above it.

Answers  
1-9:

I 22.18	O 1.6493
T 115.378	V 27.359
G 257.32	E 1.5893
A 6.6	N 111.278
R 28.159	H 11.6
	C 28.38
	B 249.32

Answers  
10-18:

J 13.7457	L 14.3 kg
R 60.8 kg	K 111.211
E 2.25	T 14.4457
Y \$22.13	U 62.9 kg
P 13.8657	B \$473.79
	S 1.8125
	F \$21.33
	D 112.101
	M 13.6 kg

① 
$$\begin{array}{r} 16.75 \\ + 9.08 \\ \hline \end{array}$$

② 
$$\begin{array}{r} 24.2 \\ - 17.6 \\ \hline \end{array}$$

③ 
$$\begin{array}{r} 3.666 \\ + 7.934 \\ \hline \end{array}$$

④ 
$$\begin{array}{r} 80.28 \\ - 51.9 \\ \hline \end{array}$$

⑤ 
$$\begin{array}{r} 0.276 \\ 0.4333 \\ + 0.94 \\ \hline \end{array}$$

⑥ 
$$\begin{array}{r} 386.5 \\ - 129.18 \\ \hline \end{array}$$

⑦ 
$$\begin{array}{r} 2.918 \\ 34.36 \\ + 74. \\ \hline \end{array}$$

⑧ 
$$\begin{array}{r} 37. \\ - 9.641 \\ \hline \end{array}$$

⑨  $13 + 6.4 + 2.78$

⑪  $\$377.49 + \$96.30$

⑬  $0.436 + 0.9097 + 5 + 8.1$

⑮  $101.1 + 0.101 + 10.01$

⑰ Dexter weighs 50 kg. His body contains 30.8 kg of oxygen and 4.9 kg of hydrogen. The rest is made up of other elements. How many kilograms of other elements are in Dexter's body?

⑩  $\$50 - \$28.67$

⑫  $3 - 1.1875$

⑭  $20.3057 - 6.44$

⑯  $2.5 - 0.25$

⑱ Anne's body contains 38.6 kg of oxygen, 6.1 kg of hydrogen, and the rest other elements. The weight of other elements is 20.4 kg less than the weight of oxygen. How much does Anne weigh?

# What Lies on the Ground 100 Feet In the Air?

Solve each problem below. Find your solution and notice the two letters next to it. Write these letters in the two boxes above the exercise number at the bottom of the page.

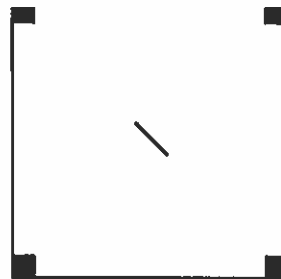
- ① A bicycle weighs 32.5 pounds. The box for it weighs 7.8 pounds. What is the total shipping weight for the bicycle and its box? \_\_\_\_\_ lb
- ② The members of the Pedal Pushers Bicycle Club have traveled 134.8 miles of a 200-mile trip. How many more miles do they have to go? \_\_\_\_\_ mi
- ③ A stone dropped from a tower falls 4.9 meters the first second and 14.7 meters the next second. How far does it fall during the two seconds? \_\_\_\_\_ m
- ④ Last week, Maria worked 1.75 hours on Monday, 2.5 hours on Wednesday, and 4 hours on Friday. How many hours did she work last week? \_\_\_\_\_ h
- ⑤ Bill's normal temperature is  $98.6^{\circ}\text{F}$ . Today Bill is sick and has a temperature of  $102.3^{\circ}\text{F}$ . How many degrees above his normal temperature is this? \_\_\_\_\_  $^{\circ}\text{F}$
- ⑥ At the beginning of a trip, the odometer in Mr. Kilowatt's car read 9,651.4 miles. At the end of the trip, it read 10,475.9 miles. How many miles was the trip? \_\_\_\_\_ mi
- ⑦ At a restaurant, Mr. Fudge ordered a fish platter for \$12.75 and a piece of cheesecake for \$2.50. The tax was \$0.97. If he left a \$3 tip, how much did Mr. Fudge spend in all? \$ \_\_\_\_\_
- ⑧ Mike drove a nail 2.5 in. long through a board 0.75 in. thick into a post. How far did the nail go into the post? \_\_\_\_\_ in.
- ⑨ At the 1984 Olympics, the United States team set a record in the 400-meter relay. Each racer ran 100 meters. Their times were 10.29, 9.19, 9.41, and 8.94 seconds. What was the record time for the relay? \_\_\_\_\_ s
- ⑩ U.S. coins have precise measurements. For example, a quarter has a diameter of 24.3 mm and weighs 5.67 g. A dime has a diameter of 17.9 mm and weighs 2.27 g. What is the difference in the diameters of these two coins? \_\_\_\_\_ mm

- Ⓛⓞ 841.5
- Ⓡⓞ 49.6
- ⓊⓃ 65.2
- Ⓟⓐ 6.4
- Ⓣⓕ 1.45
- ⓐⓈ 19.22
- ⓂⓃ 40.3
- ⓅⓇ 4.4
- Ⓣⓔ 8.25
- Ⓟⓔ 37.83
- ⓉⓂ 824.5
- Ⓟⓗ 18.62
- ⓔⓃ 19.6
- ⓖⓈ 1.75
- Ⓣⓗ 3.7
- ⓕⓞ 38.43

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7	2	10	5	1	8	3	6	9	4										

# What Position Does a Pig Play in Baseball?



Solve each problem and cross out the letter above each correct answer. When you finish, the answer to the title question will remain.

- 1** On a baseball diamond, the distance from home plate to the pitcher's mound is 60.5 feet. From the pitcher's mound to second base is 66.8 feet.  
 A. How far is it from home plate to second base?  
 B. From home plate to first base is 90 feet. How much less is this than the distance from home plate to second base?
- 2** A baseball must weigh not less than 5 ounces nor more than 5.25 ounces.  
 A. A baseball weighs 5.41 ounces. How much heavier than the maximum weight is this?  
 B. A baseball weighs 4.37 ounces. How much lighter than the minimum weight is this?
- 3** A baseball bat must be no more than 2.75 inches in diameter and no more than 42 inches long.  
 A. A bat is 2.375 inches in diameter. How much less than the maximum diameter is this?  
 B. A bat is 38.8 inches long. How much less than the maximum length is this?
- 4** Ticket prices at a baseball stadium are given in the chart.  
 A. Merlin Fogg plans to buy one adult ticket and two children's tickets in the reserved section. How much will the tickets cost?  
 B. If Merlin pays for the three tickets with a \$20 bill, how much change should he receive?  
 C. How much more will Merlin pay if he buys box seats instead of reserved seats?  
 D. How much less will Merlin pay if he buys bleacher seats instead of reserved seats?
- | Ticket Prices |        |        |
|---------------|--------|--------|
|               | adult  | child  |
| box           | \$8.00 | \$5.75 |
| reserved      | 6.50   | 4.50   |
| bleacher      | 4.00   | 2.75   |
- 5** Merlin bought four candy bars at a baseball game. They weighed 1.16 ounces, 2 ounces, 1.7 ounces, and 1.38 ounces. How many ounces of candy did Merlin buy altogether?
- 6** In baseball history, the fastest recorded pitch traveled at 100.9 miles per hour. The fastest recorded base runner took 13.3 seconds to run around the bases, averaging 18.45 miles per hour. How much faster was the pitch than the runner?

T	S	E	C	H	O	N	B	R	S	A	T	S	I	T	L	E	O	R	P	L
\$15.50	\$4.75	82.45 mph	0.63 oz	3.5 in.	0.82 oz	\$6.00	3.2 in.	6.53 oz	127.3 ft	\$4.00	14.3 ft	0.455 in.	37.3 ft	6.24 oz	8.75 mph	0.375 in.	0.09 oz	\$4.50	\$6.25	0.16 oz

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