

Why Do Dragons Sleep During The Day?

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 During winter vacation the 5 members of the Scott family went on vacation to a ski resort. They drove 336 miles in 7 hours. What was their average speed?
- ② The Scotts rented a condominium at the resort for 6 nights. The price was \$120 per night for 2 people, plus \$15 per night for each additional person.
 - A. How much did the Scotts pay per night?
 - B. How much did the Scotts pay for 6 nights?
- ③ Lift tickets at the resort cost \$28 per day for adults and \$19 per day for children under 12. The Scotts skied for 5 days.
 - A. How much did the Scotts pay for lift tickets each day?
 - B. How much did the Scotts pay for lift tickets altogether?
- ④ The top of the mountain has an elevation of 11,640 feet. How much higher is this than the base of the ski area, which has an elevation of 8,385 feet?
- ⑤ The ski resort has 9 chairlifts. Each chairlift has a capacity of 870 people per hour. The lifts operate 7 hours per day.
 - A. What is the total lift capacity per hour?
 - B. What is the total lift capacity per day?
- ⑥ One evening the Scotts went to the Chalet Restaurant for dinner. The bill was \$67.65. Mr. Scott paid with four \$20 bills. How much change should he have received?
- ⑦ A total of 19,035 people skied at the resort during the 5 days that the Scotts skied. What was the average number of skiers per day?
- ⑧ During their vacation the Scotts took 173 pictures. They put them in an album with 6 pictures on each page.
 - A. How many pages were completely filled?
 - B. How many pictures were left for an unfilled page?

The Scott Family

name	age
Mr. Scott	40
Mrs. Scott	39
Dan Scott	14
Susan Scott	13
Mike Scott	10

Answers:

(W) \$158	(P) 24
(E) \$165	(N) 5
(M) \$835	(O) \$131
(I) \$655	(T) 28
(S) \$990	(R) 2
(K) 3,807	
(U) 48 mph	
(B) 3,345 ft	
(G) 7,830	
(F) 55,910	
(H) \$12.35	
(A) 3,814	
(D) \$13.45	
(Y) 3,255 ft	
(C) 8,130	
(L) 54,810	
(V) 45 mph	

8A	6	2A	4	5B	3B	7	2A	8A	3A	6	1	8B	8A	7	8B	3B	5A	6	8A	2B
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CRYPTIC QUIZ

1. What happened when Tarzan called the King of the Jungle?

11 7 3 17 16 6 13 1 5 14 12 9 14 2

2. Whom did Smedley Jolt ask to help him cook hamburgers?

7 16 14 10 15 16 17 17 4 15 16 3 13 8

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

①
$$\begin{array}{r} 7,388 \\ + 5,967 \\ \hline \end{array}$$
 ②
$$\begin{array}{r} 947 \\ - 269 \\ \hline \end{array}$$
 ③
$$\begin{array}{r} 8,176 \\ \times 8 \\ \hline \end{array}$$

④
$$\begin{array}{r} 69 \\ \times 74 \\ \hline \end{array}$$
 ⑤
$$\begin{array}{r} 5,086 \\ 397 \\ + 8,464 \\ \hline \end{array}$$
 ⑥
$$\begin{array}{r} 879 \\ \times 95 \\ \hline \end{array}$$

⑦ 274×600 ⑧ $(60 \times 50) - (40 \times 30)$

⑨
$$\begin{array}{r} 8,501 \\ - 3,934 \\ \hline \end{array}$$
 ⑩
$$\begin{array}{r} 72,600 \\ - 6,854 \\ \hline \end{array}$$
 ⑪
$$\begin{array}{r} 58,493 \\ \times 6 \\ \hline \end{array}$$

⑫
$$\begin{array}{r} 17,338 \\ 49 \\ 9,506 \\ + 618 \\ \hline \end{array}$$
 ⑬
$$\begin{array}{r} 4,058 \\ \times 79 \\ \hline \end{array}$$
 ⑭
$$\begin{array}{r} 836 \\ \times 406 \\ \hline \end{array}$$

Answers 1-8	Answers 9-17
(R) 82,905	(B) 27,511
(H) 164,400	(J) 332,958
(E) 65,408	(I) 9,630
(L) 1,650	(S) 339,416
(W) 13,355	(L) 1,771
(V) 5,716	(G) 65,746
(A) 13,947	(C) 8,230
(K) 193,400	(U) 4,567
(Y) 678	(R) 7,840
(D) 1,800	(N) 320,582
(O) 83,505	(P) 1,851
(B) 63,908	0350,958
(F) 5,106	(K) 317,482
(M) 538	(V) 344,516

⑮ $10,000 - (8 \times 5 \times 54)$

⑰ Gyro bought a car priced at \$7,589. He agreed to make payments of \$260 per month for 36 months. How much more than the actual price will Gyro pay?

⑯ $(100 \times 27) + (10 \times 693)$

\$ _____

Why Are Unbrushed Teeth Like a Polaroid@Camera?

Do each exercise and find your answer in the set of answers to the right. Write the letter of the answer in the box containing the number of the exercise.

The area of the United States is **3,618,465** square miles.

Give the digit in each place named.

- | | |
|----------------------|--------------------------|
| (1) tens' place | (2) ten thousands' place |
| (3) thousands' place | (4) millions' place |

(O) 3 (T) 6

(E) 1 (N) 8

(S) 4 (G) 5

(R) 3 (E) 1

(I) 5 (K) 6

(Y) 9 (C) 2

The earth travels around the sun in **31,556,926** seconds.

Give the digit in each place named.

- | | |
|---------------------|------------------------------|
| (5) hundreds' place | (6) hundred thousands' place |
| (7) millions' place | (8) ten millions' place |

(O) 6 (L) 7

(T) 0 (B) 1

(H) 4 (A) 2

The speed of light is **670,614,120** miles per hour.

Give the digit in each place named.

- | | |
|--------------------------|------------------------------|
| (9) ones' place | (10) thousands' place |
| (11) ten millions' place | (12) hundred millions' place |

Write the number in standard form.

- (13) one million, two hundred thirty-four thousand, five hundred
 (14) twelve million, thirty-four thousand, fifty
 (15) twelve million, three hundred four thousand, five

(I) 12,034,050

(N) 12,340,500

(E) 1,234,500

(H) 12,304,005

Write the number in standard form.

- (16) ninety-eight million, seventy thousand, six hundred
 (17) ninety million, eight hundred seven thousand, six
 (18) nine hundred eight million, seven thousand, sixty
 (19) nine hundred eighty million, seven hundred six thousand

(E) 908,007,060

(M) 98,070,600

(W) 980,706,000

(R) 980,070,060

(D) 90,807,006

Write the number in standard form.

- (20) fifty million, fifty thousand, five hundred five
 (21) five hundred fifty million, five thousand, fifty
 (22) five hundred five million, five hundred thousand, five
 (23) five hundred million, fifty-five thousand, five hundred

(S) 505,055,050

(V) 505,500,005

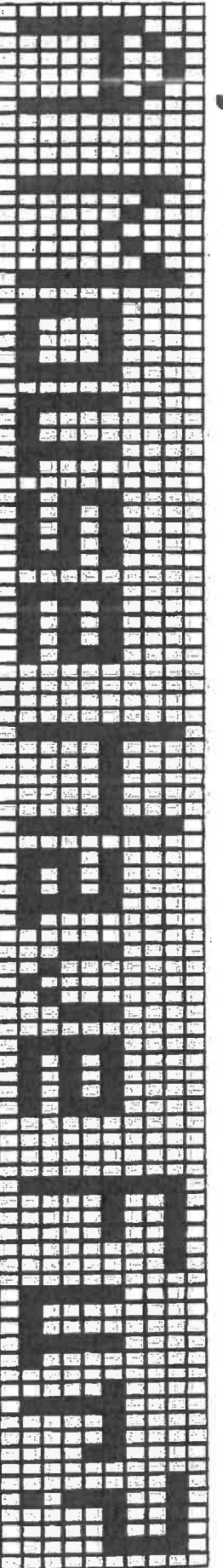
(F) 550,005,050

(L) 500,055,500

(P) 50,050,505

9	15	2	5		17	7	22	13	11	4	20		1	10	18	14	8		12	19	3		21	6	23	16
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Why Does



Think of the location of each decimal on the number line. On the number line under each exercise, write the letter of the exercise as close to that point as possible.

TOPIC 2-b: Hundredths and Thousandths

B-18

- | | | | | |
|----------|----------|----------|----------|----------|
| (T) 0.21 | (I) 0.13 | (O) 0.38 | (R) 0.97 | (F) 0.79 |
| (U) 0.45 | (U) 0.86 | (T) 0.54 | (W) 0.02 | (H) 0.28 |



- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| (L) 0.487 | (O) 0.346 | (T) 0.098 | (I) 0.015 | (B) 0.709 |
| (E) 0.792 | (A) 0.961 | (D) 0.550 | (U) 0.424 | (W) 0.256 |



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|-----------|-----------|-----------|-----------|-----------|
| (T) 7.251 | (A) 7.775 | (E) 7.913 | (R) 7.860 | (L) 7.028 |
| (E) 7.437 | (I) 7.149 | (L) 7.394 | (T) 7.305 | (B) 7.666 |



MIDDLE SCHOOL MATH WITH PIZZAZZ! BOOK B