Section 3:

Solve.

$\begin{array}{r} \overset{1}{6}35 \\ +249 \\ \hline 884 \end{array}$  $\begin{array}{r} 508 \\ +271 \\ \hline 779 \end{array}$

1. 635 + 249 = __884__

2. 508 + 271 = __779__

3. The sum of 3,684 and 2,700 is __6,384__.

$\begin{array}{r} \overset{1}{3},684 \\ +2,700 \\ \hline 6,384 \end{array}$

Solve. Show your work and use bar models to help.

4. Mrs. Tan buys a duck and a chicken. The mass of the duck is 2,300 grams. The mass of the chicken is 1,675 grams. How much heavier is the duck than the chicken?

2,300 grams

duck

chicken
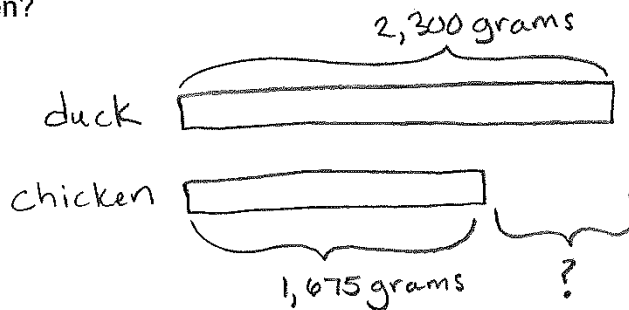
1,675 grams        ?

$\begin{array}{r} \overset{1\;2\;9\;10}{1\!\!\!/8,\!\!\!/8\!\!\!/0\!\!\!/0} \\ -1,675 \\ \hline 625 \end{array}$

The duck is 625 grams heavier than the chicken.

5. At Hillside Elementary School, there are 1,253 boys and 1,624 girls. How many students are there at the school?

1,253

Boys

Girls        ?
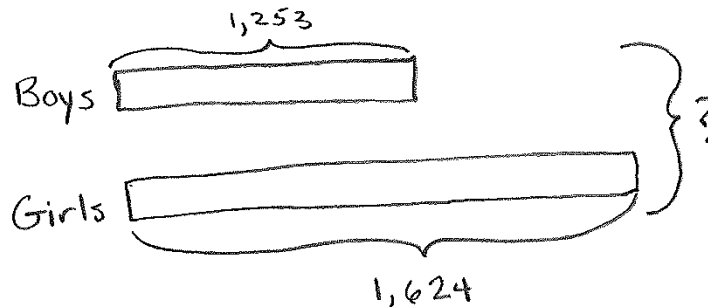
1,624

$\begin{array}{r} 1,253 \\ +1,624 \\ \hline 2,877 \end{array}$

There are 2,877 students at Hillside Elementary school.

6. Complete the number pattern.

30    80    180    330    ___530___    Pattern rule: increase by 50 more each time.

7. I am a 3-digit number that is less than 500.

My ones digit is twice the hundreds digit.

The sum of the three digits is 14.

What number am I?

2 8 4  because... 4×2=8
and, 8+2=10+4=14

or 356

or 428

Answer: __284; 356; 428__

8. 45 + 5 = _____ - 100. The missing number is __150__.

   a. 30    b. 70    c. 130    (d. 150)

45+5 = 150 - 100
(50)      (50)

9. In the number 8,296 what is the value of the digit 2?

Th  H  T  O
8,2 9 6

Answer: __200__

10. Subtract 989 from the sum of 1,857 and 2,465.

  1   1 1
1, 8 5 7
+2, 4 6 5
———————
4, 3 2 2

3 4 12 11 12
4, 8 2 2
−   9 8 9
———————
3, 3 3 3

Answer: __3,333__

## Solve. Show your work and use bar models to help.

11. Allison jogs 3,860 meters and Calvin jogs 5,470 meters.
How far do they jog altogether?

3,860 meters

Allison [ ]

Calvin [ ]

5,470 meters

}?

  1  1
3,860
+5,470
———————
9,330
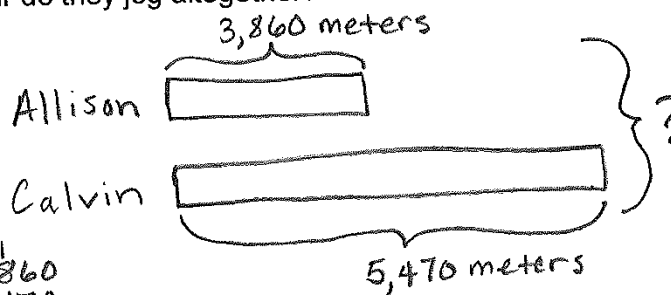
Allison and Calvin jog 9,330 meters altogether.

Solve. Show your work.

12. Marbles per bag:

| Bag A: | Bag B: | Bag C: | Bag D: | Bag E: |
|--------|--------|--------|--------|--------|
| 1,138 | 2,786 | 1,412 | 4,354 | 5,588 |

Jane takes Bag B and Bag D.

Karen takes Bag E.

a. Who has more marbles?

$$\begin{array}{r} 2,786 \\ + 4,354 \\ \hline 7,140 \end{array} = \text{Jane's marbles}$$

Jane has more marbles.

$5,588 = $ Karen's marbles

b. How many more marbles does she have?

$$\begin{array}{r} 7,140 \\ - 5,588 \\ \hline 1,552 \end{array}$$

Jane has 1,552 more marbles.

Solve.

13. Add 2,659 to 784. The sum is _____ more than 555.

b. 2,878   (b. 2,888)   c. 2,988   d. 3,988

$$\begin{array}{r} 2,659 \\ + 784 \\ \hline 3,443 \end{array} \qquad \begin{array}{r} 3,443 \\ - 555 \\ \hline 2,888 \end{array}$$

14.  $\begin{array}{r} 2,573 \\ + 1,989 \\ \hline 4,592 \end{array}$

15. When you __regroup__ 23 ones, you get 2 tens and __3__ ones.

Section 4:

Multiply mentally.

1. 4 x 30 = _120_   (4 x 3 = 12)

2. 9 x 200 = _1,800_   (9 x 2 = 18)

3. 8 x 8 = _64_

4. 5 x 8 = _40_

5. 7 x 70 = _490_   (7 x 7 = 49)

6. 9 x 9 = _81_

Solve. Show your work and use bar models to help.

7. A refrigerator costs 5 times as much as a television. The television costs $429.
   What is the cost of the refrigerator?

TV

$429

Refrigerator

?   The refrigerator costs $2,145.

$429
x    5
$2,145
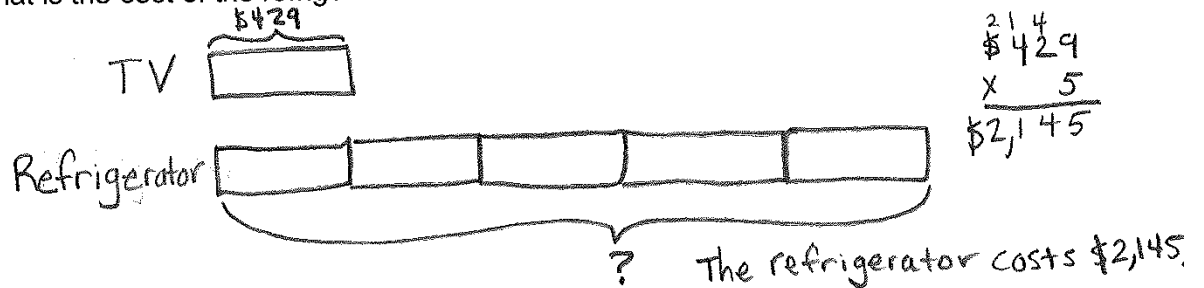
8. The students in class 3A buy 500 packets of seeds to start an eco-garden. On
   Monday, they use 27 packets of seeds. On Tuesday, they use twice as many
   packets as on Monday. How many packets of seeds do the students have left?

27 packs of seeds

MON

TUE

?

27
x  3
81

45810
- 81
419

The students in 3A have 419
packs of seeds left.
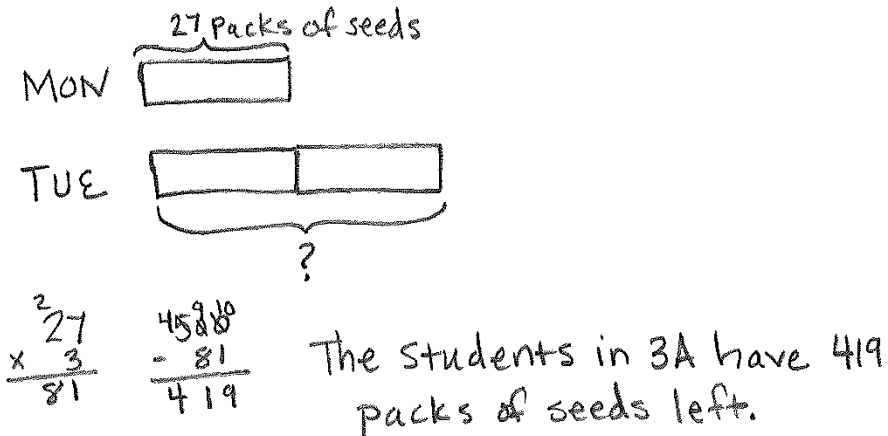
9. A store records the sales of its toys in the table below.

| MONTH | NUMBER OF TOYS SOLD |
|---|---|
| January | 180 |
| February | 90 more than in January |
| March | 3 times as many as in February |
| April | 320 fewer than in March |

a. How many toys are sold in February?

270

$$\begin{array}{r} 180 \\ +\ 90 \\ \hline 270 \end{array}$$

b. How many toys are sold in March?

810

$$\begin{array}{r} ^2270 \\ \times\quad 3 \\ \hline 810 \end{array}$$

c. How many toys are sold in April?

490

$$\begin{array}{r} 8\cancel{1}0 \\ -\ 320 \\ \hline 490 \end{array}$$

d. How many toys are sold altogether during the four months?

1,750

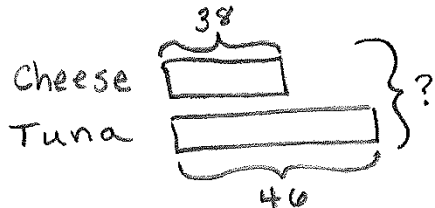$$\begin{array}{r} ^{1\ 2}180 \\ 270 \\ 810 \\ +490 \\ \hline 1,750 \end{array}$$

10.
$$\begin{array}{r} ^{1\ 1}358 \\ \times\quad 2 \\ \hline 716 \end{array}$$

11.
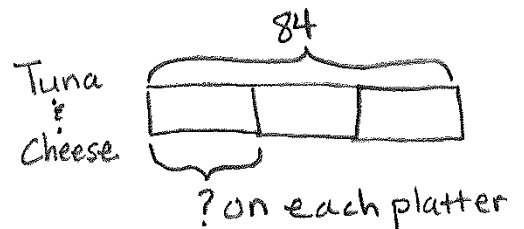$$\begin{array}{r} ^{3\ 1}152 \\ \times\quad 6 \\ \hline 912 \end{array}$$

12.
$$\begin{array}{r} ^{1\ 4}126 \\ \times\quad 7 \\ \hline 882 \end{array}$$

Solve. Show your work and use bar models to help.

13. Sophia prepares 38 cheese sandwiches and 46 tuna sandwiches.
She puts the sandwiches equally onto 3 platters.
How many sandwiches are on each platter?



$$\begin{array}{r} ^1 38 \\ +46 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 28 \\ 3\overline{)84} \\ -60 \\ \hline 24 \\ -24 \\ \hline 0 \end{array}$$

Sophia puts 28 sandwiches on each platter.

14. Maria has $500. She buys a pair of shoes for $108. She gives the rest of the money to her 4 nieces. Her nieces share the money equally.

a. How much money does Maria give to her 4 nieces?

$500

Maria's Money

Shoes

$108        ?

$\begin{array}{r} {}^{4\,9\,10}\\ \$5\,\cancel{0}\,\cancel{0}\\ -\ 1\,0\,8\\ \hline \$3\,9\,2 \end{array}$

Maria gives her nieces $392.

b. How much does each niece get?

$392

Maria's Nieces

?

Each niece gets $98.

$\begin{array}{r} 98\\ 4\overline{)392}\\ -360\\ \hline 32\\ -32\\ \hline 0 \end{array}$

15. In 5,786 the digit 5 has the same value as __5 × 1,000__ .

a. 5 x 1        b. 5 x 10        c. 5 x 100        (d. 5 x 1,000)

$\begin{array}{r} 1,000\\ \times\ \ \ \ 5\\ \hline 5,000 \end{array}$

16. What is the product of 346 and 9?

a. 300 + 14

b. 3,000 + 14

c. 300 + 100 + 4

(d. 3,000 + 100 + 14)

$\begin{array}{r} 3\ \cancel{4}\ \cancel{5}\\ 3\,4\,6\\ \times\ \ \ \ 9\\ \hline 3,114 \end{array}$ → in expanded form = 3,000 + 100 + 14

17. Divide 87 by 6. The remainder is __3__ .

a. 2        (b. 3)        c. 4        d. 5

$\begin{array}{r} 14\,R\,3\\ 6\overline{)87}\\ -60\\ \hline 27\\ -24\\ \hline 3 \end{array}$

18. Find the greatest product of a 3-digit number and a 1-digit number using each digit below only once. (3   5   6   7)

clue: order digits from greatest to least & multiply by greatest digit.

$\overset{3}{6}\ \overset{2}{5}\ \boxed{3}$

$\boxed{7}$

x _____

$\boxed{4},\boxed{5}\ \boxed{7}\ \boxed{1}$