Section 1:

Express number in word form:

- 1. 6,257 <u>Six thousand</u>, two hundred fifty-seven 2. 8,540 <u>eight thousand</u>, five hundred forty 3. 7,601 <u>Seven thousand</u>, six hundred one
- Add. Use mental math.

 4. $28 + 56 = 84 + \frac{150}{84}$ 5. $34 + 49 = 83 + \frac{17}{84}$ 6. $17 + 67 = 84 + \frac{17}{84}$ 7. $58 47 = 11 + \frac{58}{103}$ 8. $155 53 = 102 \frac{155}{53}$

Express number in expanded form:

Order the numbers from least to greatest.

Find each missing number.

Th, HTO

Complete each number pattern.

Solve.

21. A grocer sells 548 apples and 470 oranges. Estimate the number of fruits he sells altogether.

$$548 \rightarrow 550$$
 or $548 \rightarrow 500$ The grocer sells

nearest $\frac{+470}{1,020}$ or $\frac{490}{1,000} \rightarrow \frac{+500}{1,000}$ about 1,020 or $\frac{1}{1,000}$ fruits altogether.

22. Circle the mystery number. Use the clues to help you.

Clue 1: The digits in the number add up to a number greater than 10.

Clue 2: If I count in steps of 2, I will get this number.

Section 2:

Subtract. Use mental math.

Express number in standard form:

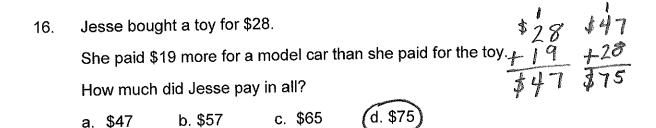
Solve.

9.
$$\frac{31}{52} \times 6 = 312$$
 10. $\frac{113 \times 3 = 339}{339}$ 11. $\frac{21 \times 7 = 147}{147}$

Complete by rounding each value to nearest ten and hundred.

	value_	nearest ten	nearest hundred
12.	139	139 -> 140	139 -> 100
13.	658	658) -> 660	468-7700 1,0(9)9-71,100
14.	1,099	1,090-1,100	1,099 -> 1,100

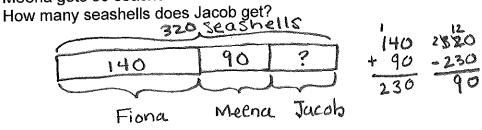
15. What number is 500 less than 6,125? answer 5,625



17. What is the smallest four digit number that can be formed with the digits 3, 8, 0, 7? answer 3,678

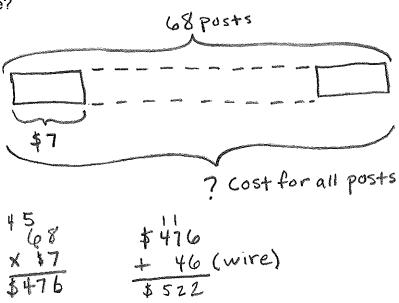
Solve. Draw a bar model to help.

Meena, Fiona and Jacob share a total of 320 seashells.
 Fiona gets 140 seashells.
 Meena gets 90 seashells.



Jacob gets 90 seashells.

19. Mrs. Johnson buys 68 posts and some wire to make a fence. Each post costs \$7. The wire costs \$46. How much does Mrs. Johnson pay for the posts and the wire?



Mrs. Johnson paid \$522 for the wires and posts.

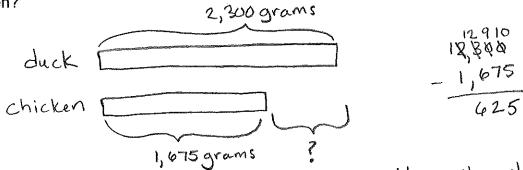
Section 3:

Solve.

1.
$$635 + 249 = 884 + 249 + 271 = 779$$
2. $508 + 271 = 779 = 3,684$
3. The sum of 3,684 and 2,700 is $6,384 = 2,100 = 6,384$

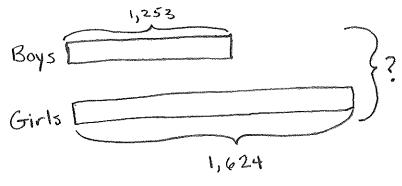
Solve. Show your work and use bar models to help.

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?



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?



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?

284 because ... 4x2=8 and, 8+2=10+4=1+

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

$$(50)$$
 = (50)

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

Th H T 0 8,296

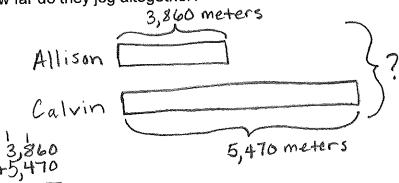
Answer: 200

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

Answer: <u>3,333</u>

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?



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.

b. How many more marbles does she have?

Solve.

15. When you regroup 23 ones, you get 2 tens and 3 ones.

Section 4:

Multiply mentally.

1.
$$4 \times 30 = 120 \quad (4 \times 3 = 12)$$

2.
$$9 \times 200 = 1,800 \quad (9 \times 2 = 18)$$

3.
$$8 \times 8 = 64$$

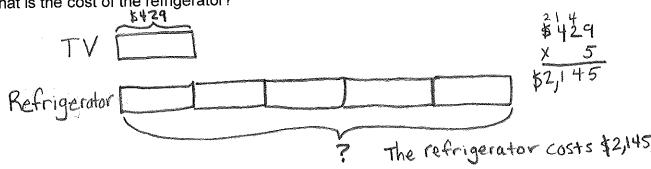
4.
$$5 \times 8 = 40$$

5.
$$7 \times 70 = 490 \quad (7 \times 7 = 49)$$

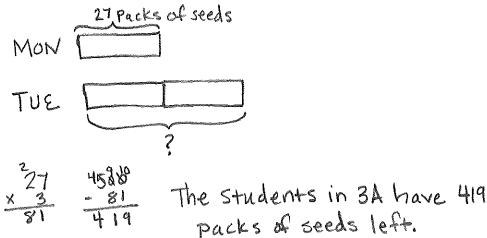
6.
$$9 \times 9 = 81$$

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?



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?



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	

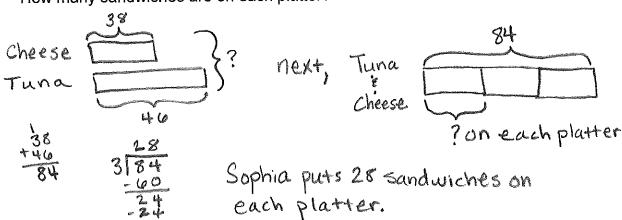
- a. How many toys are sold in February? 180 + 40 170
- b. How many toys are sold in March? 270
- c. How many toys are sold in April? 7500 180 270 490 270
- d. How many toys are sold altogether during the four months?

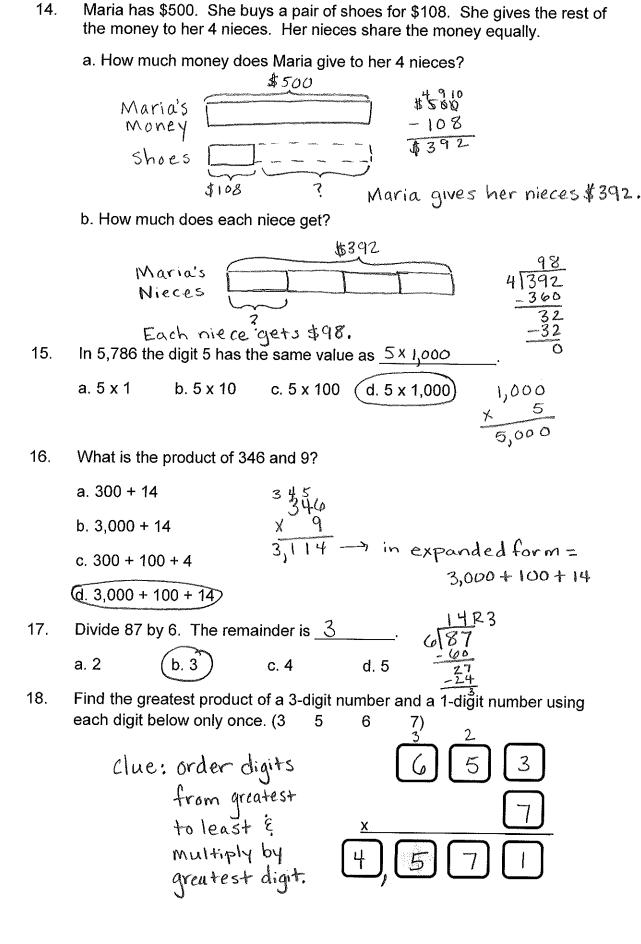
 1,750

 1,750
- 10. $\frac{11}{358}$ 11. $\frac{31}{152}$ 12. $\frac{14}{126}$ $\frac{x}{716}$ $\frac{2}{716}$ $\frac{x}{912}$ $\frac{6}{912}$ $\frac{x}{882}$

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?



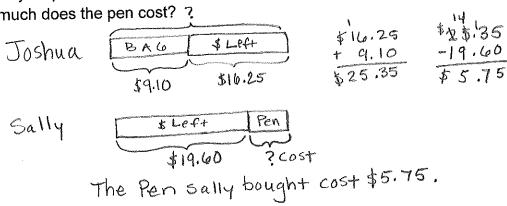


Section 5:

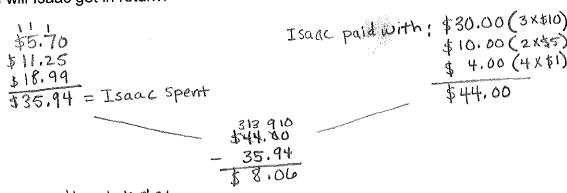
Solve.

1. Sally and Joshua have the same amount of money. Joshua pays \$9.10 for a bag and has \$16.25 left. Sally buys a pen and has \$19.60 left.

How much does the pen cost? ?



2. Isaac buys a block of cheese for \$5.70, a bottle of olive oil for \$11.25, and a package of frozen chicken wings for \$18.99. Isaac gives the cashier three \$10 bills, two \$5 bills, and four \$1 bills. How much change will Isaac get in return?



Isaac will get \$ 8.06 in change.

3. Mr. Lim buys a sweater, a handbag, and a watch. The sweater costs \$108.90.

The handbag costs \$60.30 less than the sweater. The watch costs \$50.50 more than the sweater.

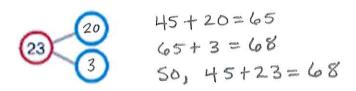
Mr. Lim receives \$33.10 in change.

How much did Mr. Lim pay the cashier?

Mr. Lim paid the cashier \$350.00.

Add or subtract mentally. Use number bonds to help you.

4. Find 45 + 23.

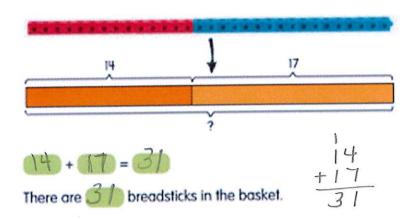


5. Find 87 - 34.

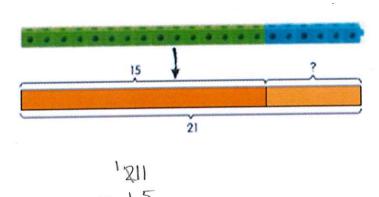
6. Find 92 + 96.

Solve. Use bar models to help you.

7. Helen puts 14 bread sticks in a basket. Her friend puts 17 breadsticks in the basket. How many breadsticks are in the basket?

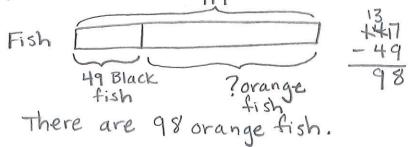


8. The third grade class has a new aquarium. There are 21 fish in it. 15 fish were given by families. The rest were bought by the school. How many were bought by the school.



The school bought 6 fish.

9. There are 147 fish in a pond. 49 of them are black. The rest are orange. How many are orange?



Solve: 10.

11.

Section 6:

Solve. Show your work.

 Maria has 48 pencils. She gives the same number of pencils to each of her friends, and she has 3 pencils left. Each friend gets 9 pencils. How many friends are there?

Round each number to the nearest hundred.

Round each number to the nearest ten.

Divide:

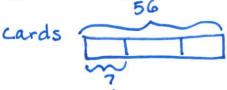
Add or subtract using mental math.

11.
$$100+42=142$$

 $142-1=141$

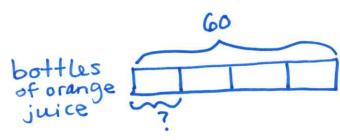
Divide to solve.

14. Three friends share 56 cards equally. How many cards does each child get? How many cards are left over?



Each friend gets 18 cards. 2 cards are leftover.

15. Timothy packs 60 bottles of orange juice equally into four containers. How many bottles are in each container?



There are 15 bottles of orange juice in each container.

Section 7:

Subtract:

Divide to solve.

- Paul has 58 bicycles in his shop.
 He arranges them in 5 equal rows.
 - a. How many are in each row?
 - b. How many are left over?

Estimate first, then solve.

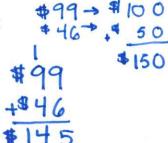
6. A tennis club orders 715 tennis balls. After some matches, 318 are worn out. The remaining matches will use 415 balls. Does the club have enough balls for the remaining matches?

The club does not have enough balls for the remaining matches. They need 18 more.

bicycles

58

715-700







\$99

Use multiplication to solve.

9. Mr. Brown has 9 mirrors. Each mirror has 9 sides. How many sides do the mirrors have in all?

The nine mirrors have 81 sides in all.

10. Pencils are given to 4 children.

Each child has 6 pencils.

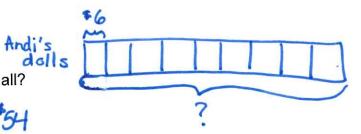
How many pencils do the children have in all?

The children have 24 pencils in all.

11. Andi has nine dolls.

Each doll costs \$6

How much do the nine dolls cost in all?



9×6=54

Andi's nine dolls cost \$54 in all.

14. Look at each array model, then fill in the blanks.

0+2 - 0-2		
	000000	

Solve:

Section 8:

Divide mentally. Use related multiplication facts and patterns to help you.

1. Find
$$350 \div 5$$

$$350 \div 5 = 35 \text{ tens } \div 5$$

$$= 7 \text{ tens}$$

$$= 10$$

5.
$$7200 \div 9 = 800$$
 $72 \div 9 = 800 \div 9 = 80$

Solve. Draw bar models to help you.

6. A letter carrier delivers 999 letters in two days. The carrier delivers 306 letters on Monday and the rest of the letters on Tuesday. How many letters does the carrier deliver on Tuesday?

letters 306 Monday ?

The carrier delivers 693 letters on Tuesday.

Multiply.

7.
$$8 \times 2 = 16$$
8. $9 \times 6 = 54$
9. $6 \times 8 = 48$
10. $7 \times 5 = 35$
11. $9 \times 4 = 36$
12. $7 \times 3 = 21$

Divide.

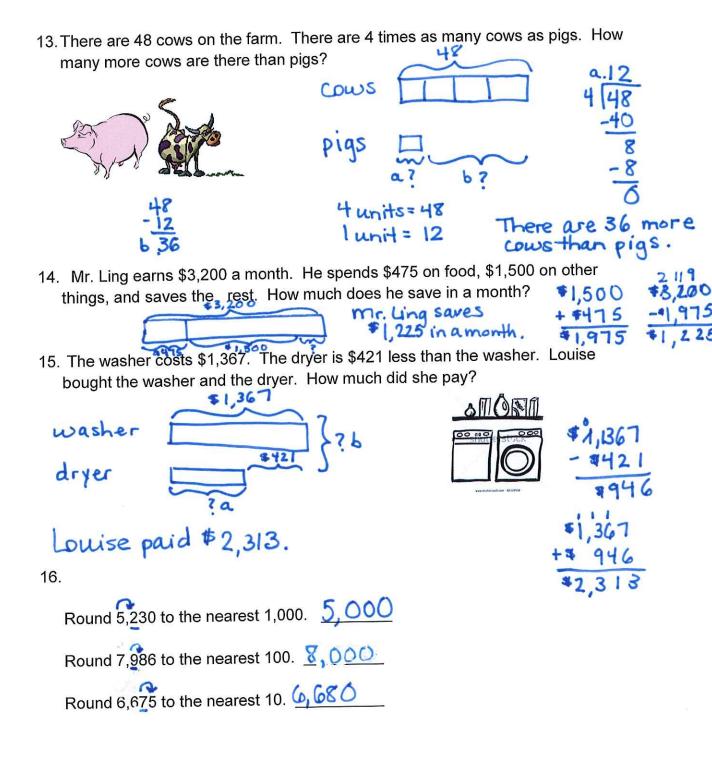
Section 9:

Fill in the blanks.

- 1) 5.600 2) 7.203 3) 1.000 -4580 -100 -100 -346
- 5,600 is 1,020 more than 4,580.
 7,203 is 100 more than 7,103.
- 3. The difference between 654 and 1,000 is 346
- 4. 3,000 + 400 + 25 = 3,425.
- 5. The sum of 4,681 and 500 is 5,181.
- 6. 5,642 in expanded form is:
- 7. In 1,863, the digit 60 is in the tens place, and its value is 60
- 8. When 349 is divided by 5, the quotient is 69 and the remainder is 4
- 9. Complete the number pattern. 5,576, 5,676, 5,776, 5,816, 5,916, 6,076.
- 10. Which of the following is the best estimate for the value of 386 x 8? $386 \rightarrow 400$ 863 6,300 3,500 3,200

Find the value of:

12. Solve these problems.



Section 10:

Solve.

5. Place the following digits in the boxes so that the sum of the 3-digit numbers is 999. Use each digit only once.

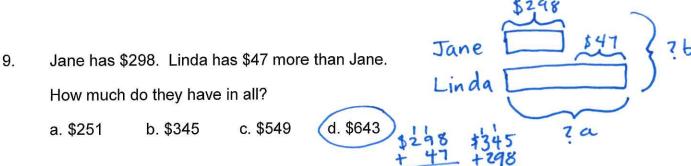
1 2 3 4 5 6 7 8 9

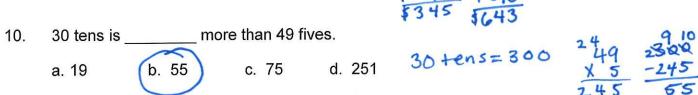
+ 5 **4** 3

6. What is the missing number? $\frac{47}{18} \longrightarrow \text{subtract } 18 \longrightarrow \text{multiply } 3 = 87$

7. Complete the following number pattern. 1+2=3 3+5=8 8+13=21 21+34=55 1,2,3,5,8,13,21, 34,55 2+3=5 5+8=13 13+21=34

8. Circle the number that has the digit 7 in the thousands place value.





- 12. I divide a number by 3 and subtract 85 from the quotient to make 190.

 What is the number?

 a. 35 b. 92 c. 315 d. 825 + 85 600 225 210
- 14. The sum of two numbers is 300. One number is 206 more than the other number. What is the value of the smaller number?

 answer: 47 #1 300 2 947 80 14