Name _____

Find the Quotient

Use the clue to write and solve a number sentence for each exercise. Choose the dividend from a number in the circles and the divisor from a number in the triangles. You can use the number in each circle only once, but you can use the number in a triangle more than once. The correct number sentence will not contain a remainder.

1. Find the least quotient.

_____

2. Find the greatest quotient.

_____

3. Find the quotient closest to 700.

_____

4. Find a 3-digit quotient with a 4 in the ones place.

_____

5. Find a quotient of 1,675.

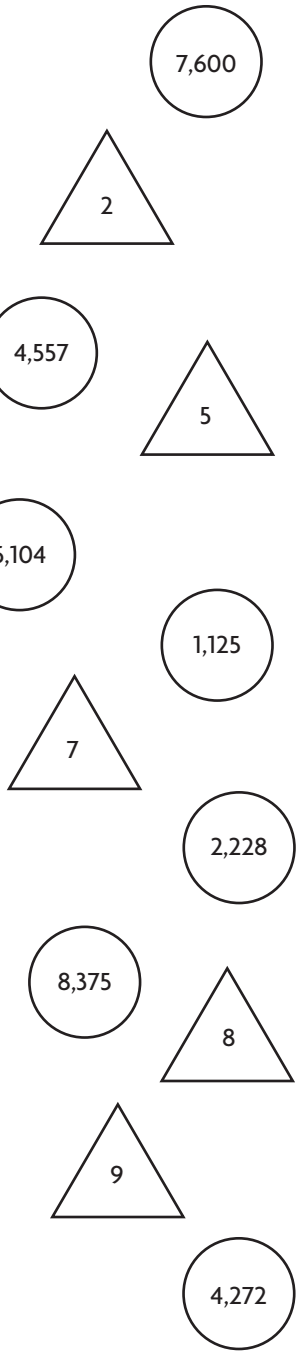
_____

6. Find the least quotient that ends with a 2.

_____

7. Find the quotient closest to 1,100.

_____



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Name _____

Division Detective

For each exercise below, find the unknown number that belongs in each box.

1. $7\overline{)287}$, quotient $4\square$	**2.** $3\overline{)18\square}$, quotient $\square 2$	**3.** $\square\overline{)44\square}$, quotient $5\,5$
4. $9\overline{)11\square}$, quotient $1\square$ r4	**5.** $\square\overline{)3\square 5}$, quotient $4\,0$ r5	**6.** $2\overline{)4{,}4\square\,9}$, quotient $2{,}2\,0\,\square$ r1
7. $7\overline{)\square\,4\,1}$, quotient $4\square$ r5	**8.** $\square\overline{)7\,3\,5}$, quotient $3\,6\square$ r1	**9.** $3\overline{)5{,}8\,7\,2}$, quotient $1{,}9\square\,7$ r$\square$
10. $4\overline{)6{,}1\,\square\,\square}$, quotient $1{,}5\,2\,9$ r2	**11.** $\square\overline{)7{,}6\,\,6\,\,2}$, quotient $2{,}5\,\square\,4$	**12.** $4\overline{)\square\,\square\,5}$, quotient $5\,\,3$ r3
13. $6\overline{)\square\,{,}93\,\,5}$, quotient $1{,}\,\,48\,\square$ r1	**14.** $\square\overline{)1{,}225}$, quotient 245	**15.** $7\overline{)5\,\square\,9}$, quotient $\square\,8$ r3

16. Write Math **Explain** the strategy you used to solve Exercise 1.

_____

_____

_____

_____

_____

_____

17. Stretch Your Thinking **Explain** how you would solve a division problem with an unknown divisor.

_____

_____

_____

_____

_____

_____

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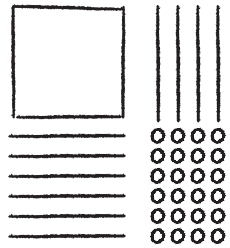
Name _____

Dividing It Up

Write two related division sentences for each quick picture.

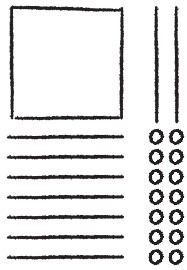
1.



_____

_____

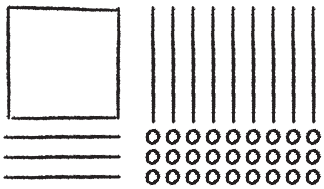
2.



_____

_____

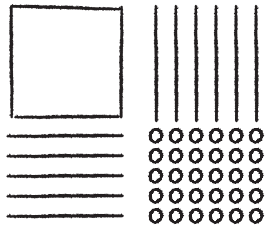
3.



_____

_____

4.



_____

_____

5. Write Math **Explain** how you can use multiplication to check that your division sentences for Exercises 1–4 are correct.

_____

_____

_____

_____

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Partial Quotients Matching

Each division problem below can be solved using two partial quotients. Match each division problem with two partial quotients and with its answer.

	Partial Quotients	Answer
1. $56\overline{)674}$	15	16 r44
	20	
2. $63\overline{)1,732}$	10	12 r2
	5	
3. $37\overline{)2,434}$	1	27 r31
	7	
4. $49\overline{)828}$	60	65 r29
	2	

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Alphabet Estimation

Find two sets of compatible numbers for each problem. Write the letters of your answers on the lines provided.

1.	$87\overline{)6{,}066}$	_____	(A) 2,800 ÷ 70	(Q) 4,000 ÷ 80
2.	$74\overline{)3{,}227}$	_____	(B) 1,800 ÷ 30	(R) 3,500 ÷ 70
3.	$62\overline{)4{,}635}$	_____	(C) 2,400 ÷ 40	(S) 1,400 ÷ 70
4.	$94\overline{)7{,}542}$	_____	(D) 1,400 ÷ 20	(T) 7,200 ÷ 90
5.	$44\overline{)3{,}521}$	_____	(E) 6,300 ÷ 90	(U) 3,600 ÷ 40
6.	$31\overline{)1{,}929}$	_____	(F) 6,400 ÷ 80	(V) 5,600 ÷ 80
7.	$47\overline{)3{,}255}$	_____	(G) 4,800 ÷ 80	(W) 3,600 ÷ 90
8.	$75\overline{)6{,}000}$	_____	(H) 4,800 ÷ 60	(X) 4,200 ÷ 60
9.	$83\overline{)4{,}300}$	_____	(I) 3,000 ÷ 50	(Y) 1,200 ÷ 20
10.	$29\overline{)1{,}433}$	_____	(J) 2,700 ÷ 90	(Z) 2,100 ÷ 70
11.	$19\overline{)1{,}274}$	_____	(K) 2,800 ÷ 40	(AA) 5,600 ÷ 70
12.	$65\overline{)1{,}681}$	_____	(L) 1,500 ÷ 30	(BB) 5,400 ÷ 90
13.	$36\overline{)2{,}281}$	_____	(M) 8,100 ÷ 90	(CC) 2,700 ÷ 90
14.	$92\overline{)2{,}899}$	_____	(N) 3,500 ÷ 50	(DD) 3,200 ÷ 40
15.	$88\overline{)2{,}000}$	_____	(O) 1,200 ÷ 30	(EE) 1,800 ÷ 90
16.	$72\overline{)5{,}525}$	_____	(P) 2,100 ÷ 30	(FF) 4,900 ÷ 70

17. Stretch Your Thinking Which letters have a quotient of 70? Which letters have a quotient of 80?

_____

_____

_____

_____

18. Write Math Write a division problem that has a 2-digit divisor and estimated quotients of 50 and 60.

_____

_____

_____

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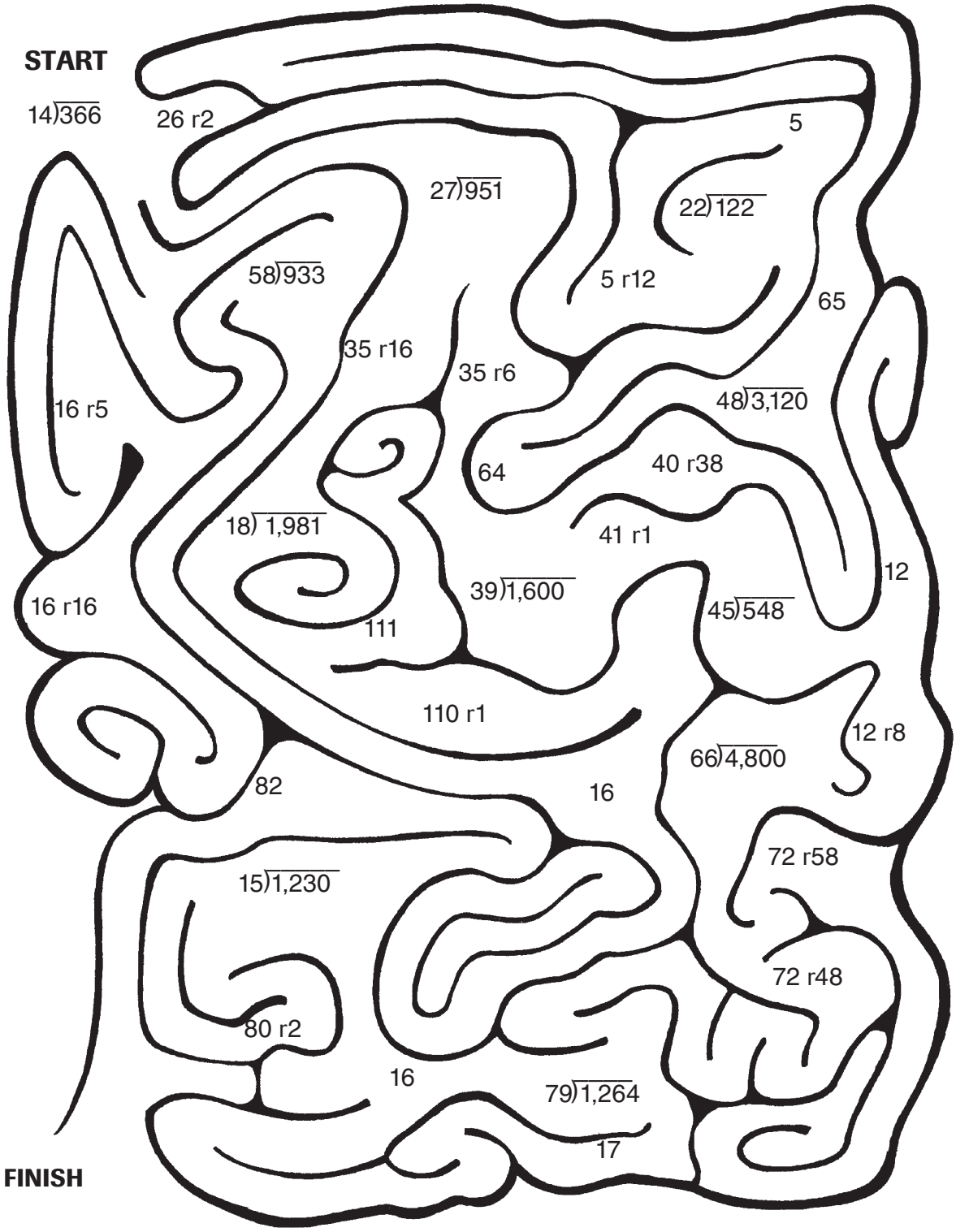
A-Mazing Division

Solve each division problem, beginning at START. Draw a line from the problem to the correct quotient. Continue until you reach FINISH. If you reach a dead end, go back and try again.



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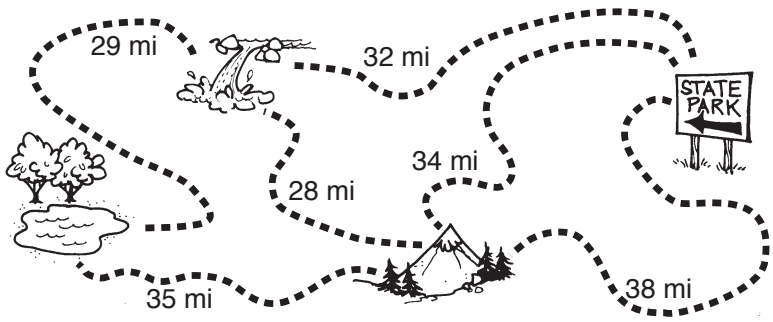
Biking Division

Jeff and Mario spent their summer vacation biking and camping along trails in a nearby state park. Use the map and the table of information below to solve each problem.



Distance, Rate, and Time	
Example: Joe drove 140 miles in 2 hours at 70 miles per hour.	
rate × time = distance	70 × 2 = 140 mi
distance ÷ time = rate	140 ÷ 2 = 70 mi per hr
distance ÷ rate = time	140 ÷ 70 = 2 hr

1. Mario bikes at a rate of 7 miles per hour. If he takes the longer direct route from the park entrance to the mountain, for how many complete hours will Mario bike?

_____

2. If he continues riding at a rate of 7 miles per hour, how many hours will it take Mario to bike from the mountain to the lake along the most direct route?

_____

3. Jeff bikes at a rate of 9 miles per hour. If he bikes the most direct route from the park entrance to the waterfall, about how many hours will Jeff bike?

_____

4. From the waterfall, Jeff then bikes the direct route to the lake. His rate decreases to 8 miles per hour. For how many complete hours will Jeff bike?

_____

5. How many total miles does Jeff bike in order to go from the park entrance to the lake using the shortest distance?

_____

6. Mario bikes along the most direct route from the lake to the waterfall to meet Jeff. If he bikes 5 miles per hour, about how many hours will he bike?

_____

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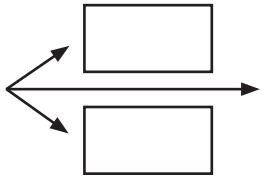
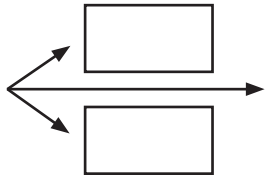
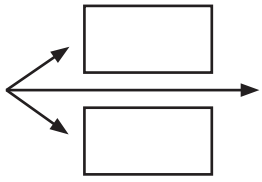
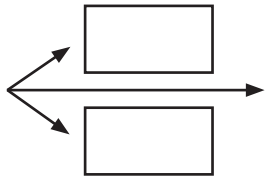
Quotient Correction

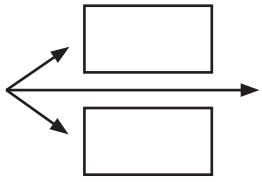
For each problem, find two estimates. Write the higher estimate in the top box and write the lower estimate in the bottom box. Use one estimate to place the first digit. Divide and adjust the quotient as needed. Write your answer on the line provided.

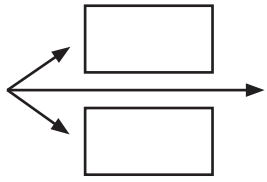
1. $6\overline{)3{,}387}$  _____

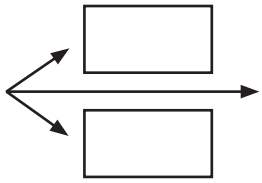
2. $9\overline{)1{,}346}$  _____

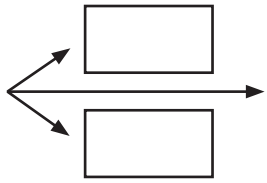
3. $77\overline{)400}$  _____

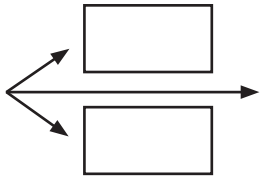
4. $41\overline{)296}$  _____

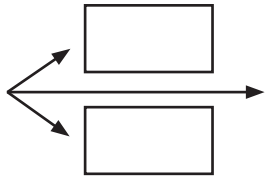
5. $92\overline{)378}$  _____

6. $3\overline{)4{,}509}$  _____

7. $28\overline{)1{,}255}$  _____

8. $50\overline{)729}$  _____

9. $84\overline{)2{,}550}$  _____

10. $32\overline{)656}$  _____

11. Write Math **Explain** the strategy you used to solve Exercise 2.

_____

_____

_____

_____

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Division Draw

Draw a bar model to solve each problem.

1. Keira, Larry, and Gita picked apples at an orchard. Keira picked twice as many pounds as Larry and 3 times as many pounds as Gita. The total weight of the apples they picked was 8,360 pounds. How many pounds of apples did each person pick?

Keira _____

Larry _____

Gita _____

2. Mark orders food for a restaurant. He orders 5 times the number of pounds of chicken as he does beef, and he orders 4 times the number of pounds of fish as beef. The total weight of the food he orders is 3,600 pounds. How many pounds of each item does Mark order?

chicken _____

beef _____

fish _____

3. Write Math Describe how you used a bar model to solve Problem 1.

_____

_____

_____

_____

_____

_____

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