

Complete the packet and turn into your 5th grade math teacher during the first week of school!



Math Packet Answer Key

"Know How Place Values Are Related in a Multi-Digit Numbers"

- C
 C
 18,005-5→36,458-50→52,789-5,000→375,123-50,000
 D
 False-True-False-True
 C
 D
 50,000
 D
 B
 B
- 12. D

12

φ.

- 13. 10
- 14. 10

"Fluency Add and Subtract Multi-Digit Whole Numbers"

- 1. D
- 2. 179,706
- 3. A
- 4. 291,173
- 5. A
- 6. C
- 7. 477,263 488,891
- 8. B
- 9. 332,658
- 10. C

"Interpret Multi-Digit Equations as a Comparison"

- 1. C
- 2. A
- 3. D
- 4. 5
- 5. A
- 6. B
- 7. 27
- 8. E and F
- 9. 9→36
- 10. No-No-Yes-Yes

"Multiply and Divide to Solve Multiplication Comparison Problems"

- 1. D
- 2. A

- 3. 45 75- 105- 135
- 4. C
- 5. Correctly Incorrectly Incorrectly Correctly

"Lesson 8.6 Additional Practice"

- 1. 1,073 (B. Draw an area model to get the same answer)
- 2. 2,484
- 3. 816
- 4. 6,586
- 5. 1-7-2-2 (from top to bottom)
- 6. 6-3
- 7. 7-420-00

"9.3 Additional Practice"

1. Possible Answer: Since the quilt is a square, all 4 side lengths are equal. So, the perimeter is equal to 4 times the length of 1 side. 4s=368.

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92 inches

- 2. 17 meters
- 3. 32 centimeters
- 4. 26 feet
- 5. 20 inches
- 6. 19 meters

"Lesson 10.4 Reteach"

- 1. Composite
- 2. Composite
- 3. Prime
- 4. Composite
- 5. Prime
- 6. Composite
- 7. The set of 18
- 8. 1x18, 2x9, 3x6, 6x3, 9x2, 18x1

"Lesson 11.4 Additional Practice"

- 1. Possible Answer: I multiplied the numerator and denominator by 2.
- 2. ¼ = x3 = 3/12
- 3. $4/5 = x^2 = 8/10$
- 4. 12/20 = divided by 4 = 3/5
- 5. $3/12 = divided by 3 = \frac{1}{4}$
- 6. False
- 7. True
- 8. False

- 9. Possible Answer: I found an equivalent fraction for $\frac{1}{4}$ with 12 as a denominator $\frac{1}{4} = x^3 = \frac{3}{12}$. So, Leah bought 3 pairs of socks.
- 10. 14/16 = 21/24
- 11. 10/18 = 15/27
- 12. 4/5 = 8/10

"Lesson 12.5 Additional Practice"

- 1. 2 and 46/100 2.46 \$2.46
- 2. 3 and 15/100 3.15 \$3.15

Possible Answer: three \$1 bills, 1 dime, 1 nickel

"Use Addition and Subtraction to Find Unknown Angles on a Diagram"

- 1. B
- 2. False False True
- 3. A
- 4. 52+90+x=180
- 5. C
- 6. D
- 7. A&C&D
- 8. 25 Degrees
- 9. D
- 10. 58 145 118 75

"Lesson 15.1 Reteach"

- 1. Scott runs 7/5 miles
- 2. Charlene has 9/8 pounds of blueberries left
- 3. 11/8
- 4. 9/6 or 3/2
- 5. 9/10
- 6. 15/12 or 5/4
- 7. 5/5 or 1
- 8. 7/8

"Understand a Multiple of a/b as a multiple of 1/b"

- 1. D
- 2. C
- 3. 12-12-30
- 4. C
- 5. 9
- 6. C&D&E
- 7. 7 x 1/5 10 x 1/5
- 8. C
- 9. 4x3
- 10. C

"Represent Fractions and Mixed Numbers"

(Back)

- 1. 2-34-2 and 34
- 2. 1/3
- 3. 4/9
- 4. 3/6
- 5. 3⁄4
- 6. 3 and 3/4
- 7. 5 and 2/3
- 8. 2 and 2/5
- 9. 2 and ¼
- 10. 1 and 7/8

"Lesson 16.3 Reteach"

- 1. 15/8 inches
- 2. 4/3
- 3. 35/6
- 4. 12/5
- 5. 35/10

"Lesson 17.2 Additional Practice"

- 1. Right
- 2. Acute
- Obtuse
- 4. Obtuse
- 5. Acute
- 6. Right
- 7. Possible Answers: Three of the triangles are right and the one acute triangles does not belong.
- 8. Possible answer: Three of the triangles are acute and the one obtuse triangle does not belong.

"Lesson 17.4 Additional Practice"

- 1. 1-2
- 2. 2-0
- 3. 2-4
- 4. 2-4
- 5. A Quadrilateral B Rhombuses C Rectangles D Both

"Lesson 18.3 Additional Practice"

- 1. Pentagon, triangle pointing down, Triangle pointing down, pentagon
- 2. The pattern starts wit 1 square and 4 rectangles and shows an increase of 1 square and 4 rectangles in each additional figure.
- 3. Arrow down arrow down arrow down arrow down 6 sided shape
- 4. Answers may vary using all 4 shapes

"Lesson 20.1 More Practice and Homework"

- 1. 120 grams
- 2. No, a small mug holds less than a liter because a large bottle of water holds a liter of water. The mug is smaller than the water bottle.
- 3. Hand
- 4. Kilogram
- 5. Kilogram
- 6. Liter
- 7. Gram
- 8. Possible Answer: paper clip
- 9. Possible Answer: flowerpot
- 10. A
- 11. C&E
- 12. C
- 13. A&B
- 14. Right Triangle
- Angle ABC drawn and labeled ABC
 Point A, B, C Line segment: AB BC Rays: BA BC

"Lesson 21.2 Additional Practice"

- 1. Samuel should leave at or before 8:20 am
- 2. 1:16:54
- 3. Possible Answer: Marco drove for 3 hours and 20 minutes. He stopped driving at 5:30 pm. What time did he start driving? (2:10 pm)
- 4. Austin did not regroup correctly when he subtracted. The correct answer is 1:35

"Lesson 21.3 Additional Practice"

- 1. 6:02:18 p.m.
- 2. 10:04:12 a.m.
- 3. Possible answer: Theresa will not be on time; she should allow herself more than just 1 hour and 30 minutes.
- 4. Possible Answer: Greg ruins a long-distance running race. He finishes in a time of 4 hours and 27 minutes and 48 seconds. He finishes at 12:11:09 p.m. What time did he start running? 7;43:21 a.m.

	Name					Know Haw Plac Nulti-Digit Nur	e Values A Iber
1	How many tim 9 in 924,512?	nes the valu	ue of th	e 9 in 92	2,175 is th	ne value of t	he
	A 100B 90	© 10 D 9					
2	What is the va	lue of the	2 in 72	4,638?			
	A 200B 2,000	© 20,00 © 200,0	00				
3	Place an X in	the table to	o show	the value	e of the !	5 in each nui	mber.
		5	50	5,000	50,000		
	18,005						
	36,458						
	52,789						
	375,123						
4	Carson made a a 4 in the one What was the A 4,456 B 4,465 Place an X in T	a four-digit s place, a 5 number? © 4,564 © 4,654 the table to	numbe 5 in the 5	r with a tens plac if each s	4 in the ce, and a tatement	thousands pl 6 in the hur is true or fa	ace, ndreds p alse.
						True	False
	The value of	9 in 874,09	92 is 900).			
	The value of						
nghlon	The value of 8 in 380,194 is 800,000.						

Grade 4 • Standards-Based Practice

11

Know H Multi-D	ow Place Values Are Re Igit Number	lated in a Name				
6	Kevin got 738,2 website. What digit 7 in 738,2	256 hits on his new is the value of the 256?		How many t the 5 in 51, the 5 in 502	times the value of 327 is the value of 2,428?	
	A 7,000B 70,000	⑦ 700,000⑦ 7,000,000		A 1 B 10	© 50 D 100	
7	What is the val 380,194? (A) 80 (B) 800	ue of the 8 in ⓒ 8,000 ⓒ 80.000	12	How many t the 7 in 72 7 in 7,429? (A) 1	times the value of is the value of the $(\widehat{\mathbb{C}}, 70)$	
8	Saskia scored 15 the third level of game. What is digit 5 in 157,8	57,834 points on of her computer the value of the 34?	Æ	 B 10 Fill in the bl from the list the sentence 	D 100 ank with a number t to correctly complete e.	
9	How many time 4 in 4,175 is the 43,512?	es the value of the e value of the 4 in		The value of times 2 in 27.	f the 2 in 201 is the value of the 100 200	
	A 4B 40	© 100 D 10	12	Fill in the bla from the list	ank with a number to correctly complete	
10	A large puzzle contains 172,435 pieces. What is the value of the digit 2 in 172,435?			the sentence. The value of the 8 in 8,491 is times the value of the		
	A 200 B 2,000	© 20,000 © 200,000		8 in 843. 10 800	1,000 8,000	

	Name	Fluently Add and Subtract Muhi-Dig Whole Numbers
1	What is the sum of 65,182 and 58,458?	What is the sum of 35,698 and 48,735?
	(A) 113,640	A 84,433
	B 123,540	B 84,423
	© 123,630	© 84,333
	D 123,640	D 74,433
2	What is the sum?	6 What is the difference?
Sherid	101.452 + 72,863 + 5,391	82,458 - 56,759
		(A) 35,699
		B 25,789
	0 <u></u>	C 25,699
5	What is the difference between 73,815 and 48,968?	D 25,409
	(A) 24,847(B) 24,947	What is the answer for each of the problems?
	© 25,847	Fill in the blanks with the correct
	D 34,847	answers from the list to complete the sentences.
7.1	What is the difference?	The sum of 444,276 and 32,987
any .	547.262 - 256.089	is
ublishing Comp	547,202 250,005	The difference of 496,784 and 7,893 is
Harcourt P		477,363 477,263 478,263
n Miffli		487,891 488,891
oughto		*



A subtraction problem is shown with one number unknown.



Which number completes the problem?

- A 1
- B 2
- © 3
- D 4

What is the sum of the addition problem shown?



III An addition problem is shown with one number missing.



Which of these is the unknown number?

- A) 2
- B 4
- © 7
- D 8

Interpret a Multiplication Equation as Comparison

- Which comparison does the model show? 32 4 4 4 4 4 4 4 4 4 (A) 8 more than 4 is 32. (B) 9 more than 4 is 32. \bigcirc 8 times as many as 4 is 32. 8 8 (D) 9 times as many as 4 is 32. 8 2 Nadia buys balloons for a party. She buys 3 times as many purple balloons as yellow balloons. Nadia buys 18 purple balloons. Which equation tells how many yellow balloons Nadia buys? (\overline{A}) 3 \times 6 = 18 (B) 3 + 15 = 18 (\widehat{C}) 3 + 18 = 21 (A) 8 (D) 3 × 18 = 54 (B) 9 Darlene's dog weighs 5 pounds. Lee's dog weighs 4 times as much as Darlene's. Which equation can be used to find the weight of Lee's dog, n? (A) 5 \times n = 4 (B) 5 + n = 4 $(\widehat{C}) 5 + 4 = n$ $\textcircled{D} 5 \times 4 = n$
 - Hal has 3 times as many roses as tulips. He has 15 roses. How many tulips does Hal have?
 - Which equation is represented by the model?



6 Which number correctly completes the comparison?

6 times as many as _____ is 54.

(C) 48

(D) 60

Grade 4 • Standards-Based Practice

7 The coach has 9 footballs. She has	Which comparisons about
3 times as many basketballs. How	$42 = 6 \times 7$ are correct?
many basketballs does the coach	
have?	Select all the correct answers.
	(A) 42 is 6 more than 7.
	(B) 42 is 7 more than 6.
	\bigcirc 6 is 7 times as many as 42.
	\bigcirc 7 is 6 times as many as 42.
	(E) 42 is 6 times as many as 7.
	(F) 42 is 7 times as many as 6.

36					
9999					
9					

4 times as many as _____ is _____.

10 Which statements are equivalent to the equation $3 \times 15 = 45$?

Place an X in the table to show if the equation is equivalent to each statement.

	Yes	No
45 is 3 more than 15.		
15 is 5 times as many as 3.		
3 times as many as 15 is 45.		
45 is 15 times as many as 3.		

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6	Mark's family has lived in the same town for 3 years. There are 12 months in a year. For how many months have they lived in the town? (A) 24 (B) 32 (C) 36 (D) 60	8	Kate danced for 90 minutes at a dance class. This was 3 times as long as the number of minutes James danced. For how long did James dance? (A) 30 minutes (B) 87 minutes (C) 93 minutes (D) 270 minutes
	Emily is trying to divide 72 packages of crayons into equal groups for an art project. What would be the total number of packages in each group if she places them into the different groups shown? Draw a line to match each group with the correct number of packages. 3 groups • 8 packages • 9 packages 8 groups • 12 packages 9 groups • 24 packages	9	Ahmie reads 22 pages of her book each day. At the end of 8 days, how many pages has she read? Ahmie has read pages. Diego's family is taking a trip to visit his cousins. They will be away for 3 days. There are 24 hours in one day. For how many hours will they be away? (A) 24 hours (B) 36 hours (C) 48 hours (D) 72 hours
	с.		









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Choose a Multiplication Strategy

There are 29 books on each shelf at the library. How many books are on 37 bookshelves?

A. Use partial products to find the product.

 $37 \times 29 = 100$ books

B. Draw an area model to check your work.

Estimate. Then choose a method to find the product.

🔄 Estimate:	El Estimate:	🔄 Estimate:
54	68	74
× 46	\times 12	× 89

Find the unknown digits. Complete the problem.







Identify Prime and Composite Numbers

Is the number 6 prime or composite?

A. What are prime and composite numbers?

A prime number is a miniple number greater than 1 that

has exactly ______ factors, _____ and _____

A composite number is a whole number greater than 1

that has more snan a factors.

B. Find the factors of 6.

more than 2 factors, so it is composite.

The number 6 is ______

Tell whether the number is prime or composite.

	34		2	27	
120	19		4	69	
E	71	and the second	C	64	a particular constrained and before an extension of the second second second second second second second second

Jada wants to arrange a set of postcards in an array. She wants to have several options for the array. She has a set of 18 postcards and a set of 23 postcards.

Which set should she choose?

What are the possible arrays?



Generate Equivalent Fractions

Explain how you can write an equivalent fraction for $\frac{2}{3}$. Draw a visual representation to show how your fractions are equivalent.



Use multiplication or division to generate an equivalent fraction.



Write true or false for the statement.

 $\boxed{1} \frac{3}{4} = \frac{12}{20} \qquad \qquad \boxed{1} \frac{9}{15} = \frac{3}{5} \qquad \qquad \boxed{1} \frac{6}{10} = \frac{12}{16}$

Athletic socks are sold in packs of 12 pairs. Leah brought $\frac{1}{4}$ of a pack on a team trip. How many pairs did Leah bring? Explain how you can use equivalent fractions to solve.

Generate two equivalent fractions for the fraction.

 $\overrightarrow{12} \quad \frac{7}{8} = \underbrace{\qquad}_{=} = \underbrace{$

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Write the amount as a mixed number, a decimal, and a decimal dollar amount.

The tip for a \$21 meal is three dollars and fifteen cents. Shade the hundredths models to show the amount of the tip.

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Write the amount as a mixed number, a decimal, and a decimal dollar amount.

What bills or coins could show that amount?

Add and Subtract Fractions to Solve Problems

Alexis brought $\frac{15}{10}$ liters of water to soccer practice. At the end of practice, she had $\frac{7}{10}$ liter of water left. How much water did Alexis drink during practice?

Start by representing the starting and ending amounts on a number line. Then use the number line to find how much water Alexis drank.



Scott runs $\frac{3}{5}$ mile on Monday and $\frac{4}{5}$ mile on Tuesday. How many miles does Scott run? Use the fraction model to help you solve the problem.

1 mile	1 mile		

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Charlene has one container with $\frac{5}{8}$ pound of blueberries and another container with $\frac{6}{8}$ pound of blueberries. If she uses $\frac{2}{8}$ pound of blueberries to make muffins, how many pounds of blueberries does Charlene have left?

Find the sum or difference.



Carlos lives $\frac{3}{8}$ mile from his school. He walks to school each morning and gets a ride home after school. Which expression is used to find the number of miles Carlos walks in 5 days?

- Marko runs $\frac{3}{5}$ miles 3 times a week. Which expression is equal to the distance Marko runs each week?

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What number is needed to complete each equation?

 $4 \times \frac{3}{5} = \underline{\qquad} \times \frac{1}{5}$ $6 \times \frac{2}{3} = \underline{\qquad} \times \frac{1}{3}$ $5 \times \frac{6}{5} = \underline{\qquad} \times \frac{1}{5}$

Larry practices his guitar $\frac{5}{6}$ hour on 4 different days each week. Which expression shows the number of hours Larry practices each week?

Donna buys some fabric to make placemats. She makes 9 different placemats. She needs $\frac{1}{5}$ yard of fabric for each placemat.

What is the unknown number in the equation that represents how much fabric she needs?

 $\frac{9}{5} = \underline{\qquad} \times \frac{1}{5}$

Which of these equations are true? Select the three correct answers.

37

Each of the fractions can be written as a product of a whole number and a fraction. What numbers correctly complete the equations?

Fill in the boxes with the correct numbers from the list. You will not use all the numbers.



What is the unknown number in the equation?



What numbers will correctly complete the equation?



Represent Fractions and Mixed Numbers skill 28

Vocabulary

Example 1

Learn the Math

Barbara cuts an apple into 4 equal parts. Then she eats 1 part. What fraction of the apple does she eat?

You can draw a shape and divide it into 4 equal parts. Shade 1 part to show the amount Barbara eats. fraction numerator denominator mixed number



So, Barbara eats _____ of the apple.

Example 2

Pedro starts to paint the shapes for a poster. Write a mixed number to show how many of the shapes he paints.

Step 1 Find the whole number part of the mixed number.	whole shapes are shaded.
Step 2	Each whole is divided into
Find the fraction part of the mixed	equal parts, or
number.	of the last shape is shaded.
Then write the mixed number.	The mixed number is

So, Pedro paints ______ shapes.

REASONING Ling says that $\frac{3}{2}$ is the same as $1\frac{1}{2}$. Is she correct? Explain.

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Do the Math

Write a mixed number to name the amount shaded.



Bow many whole circles are shaded? _____

- What fraction of the last circle is shaded?
- Write the mixed number.

Write a fraction to name the amount shaded.



Write a mixed number to name the amount shaded.



The Reeds order two pizzas for dinner, each with 8 equal slices. They eat one whole pizza and 7 slices of the other pizza. What mixed number names the amount of pizza they eat?

Remember A mixed number is made up of a whole number and a fraction.

Represent Multiplication of a Fraction by a Whole Number

Molly is weaving bracelets. For each bracelet, she needs $\frac{4}{5}$ meter of string. How much string does Molly need to make 3 bracelets?

Use a visual model to solve.

A. Draw 3 rectangles, each divided into 5 equal parts. Shade 4 of the 5 parts in each rectangle to represent $\frac{4}{5}$.



B. Count the shaded parts. There are 12 shaded parts.

C. Describe how the visual model shows multiplication.

The visual model shows 3 groups of 4 fifths. Molly needs $\frac{12}{5}$ meters of string.

Solve.

I A snail can travel $\frac{3}{8}$ inch in 1 minute. How far can this snail

any

travel in 5 minutes?

Find the product.

 2
 $2 \times \frac{2}{3} =$ 2
 $4 \times \frac{3}{5} =$

 4
 $7 \times \frac{5}{6} =$ 5
 $\frac{7}{10} =$

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Identify and Classify Triangles by Angles

Classify the triangle. Write *acute, right,* or *obtuse*. Use a protractor, if needed.



In each set, cross out the figure that does not belong. Explain why.





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Identify and Classify Quadrilaterals

Identify the number of pairs of sides that are parallel and the number of right angles.



pair(s) of parallel sides: _____ right angles: _____



pair(s) of parallel sides: ______





pair(s) of parallel sides: _____ right angles: _____ pair(s) of parallel sides:

Identify and classify each figure. Determine where each figure should go in the Venn diagram.









Module 20 • Lesson 1

Test Prep	
Kip measures the length of measurement could be corr	his shoe. Which rect?
A 19 centimetersB 19 kilometers	 C 19 meters D 19 millimeters
Which could you use to me Choose all that are correct.	asure liquid volume?
 A gram B kilogram C liter 	 D meter E milliliter F millimeter
Shenika finds that an object as 25 paper clips. Which cou	t has about the same mass ald be Shenika's object?
A bootB notebook	 C) paper plate D) tube of toothpaste
Which could you use to mea are correct.	asure mass? Choose all that
 A gram B kilogram C liter 	D meter E milliliter F millimeter
Spiral Review	ghton Mifflin
Classify the figure.	Draw and label an angle. Use the labels to identify the points, line segments, and rays that are shown on the drawing.

Name	HCCO(1212) Additional Practice
Solve Problems Involving Elapsed Time	
Samuel needs to arrive at school at 8:35 a.m. It takes him 15 minutes to walk to school. What time should he leave his home? Solve using a strategy of your choice.	
Jasmine began hiking at 1:08:15 p.m. She stopped hiking at 2:25:09 p.m. How much time did Jasmine spend hiking?	
Write and solve an elapsed time problem using an elapsed time of 3 hours 20 minutes.	
Austin solved the following problem incorrectly. This shows Austin's solution. Explain his error, and show the correct solution.	
A movie started at 6:45 p.m. The movie ended at 8:20 p.m. How long was the movie?	0 1
7 11 10 &: 2 Ø	oughton Mifflin H
$\frac{-6:45}{1:75}$	arcourt Publishin
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Solve Problems Involving Start Time and End Time

- Pavel has soccer practice at 3:35:00 p.m. Today, soccer practice lasts 2 hours 27 minutes and 18 seconds. At what time does Pavel finish practice today? Solve using a strategy of your choice.
- Shonda wants to do a hike. She calculates that the hike will take her 7 hours 30 minutes. She wants to finish before sunset at 5:34:12 p.m. By what time does Shonda have to start her hike to make sure she is finished by sunset?
- Theresa leaves home at 7:30 a.m. It will take her 2 hours 30 minutes to drive to her grandmother's house. She promised to arrive at 9:00 a.m. Will she be on time? Explain how you know.

Write an solve a problem about start and end time. Use the elapsed time of 4 hours 27 minutes 48 seconds.

			Multip	lying b	y 5 (A))		
Name:			Da	ate:			Score:	/81
			Calcula	ate each p	roduct.			
3×5	$\times 5^{4}$	9 × 5	$\frac{1}{\times 5}$	5 × 5	8 <u>× 5</u>	7 × 5	$\times \frac{6}{5}$	$\frac{2}{\times 5}$
5×4	5 × 8	5 × 5	5 <u>×6</u>	$\frac{5}{\times 3}$	5 ×9	5 ×7	$\times \frac{5}{2}$	5×1
5 × 3	6 × 5	5 × 5	7 <u>× 5</u>	5 ×9	8 × 5	$\frac{1}{\times 5}$	$\frac{2}{\times 5}$	$\frac{4}{\times 5}$
5 <u>× 5</u>	6 × 5	5 <u>×4</u>	5 × 9	5 × 7	$\times \frac{1}{5}$	$\times \frac{3}{5}$	5 <u>× 8</u>	5×2
9 × 5	$\frac{4}{\times 5}$	5 ×6	5 × 5	$\frac{2}{\times 5}$	$\frac{5}{\times 1}$	5 × 3	$\frac{7}{\times 5}$	5 × 8
4 × 5	$\frac{1}{\times 5}$	$\frac{3}{\times 5}$	5 × 9	5 × 8	$\frac{5}{\times 2}$	5 × 5	5 <u>× 6</u>	5 × 7
$\frac{1}{\times 5}$	$\frac{3}{\times 5}$	5 ×9	5 × 5	5 × 8	$\frac{2}{\times 5}$	6 × 5	5 × 7	5 ×4
5 ×4	$\frac{5}{\times 1}$	5 × 5	$\times \frac{5}{2}$	5 × 7	9 × 5	5 ×6	5 <u>× 3</u>	8 × 5
$\frac{1}{\times 5}$	$\times \frac{6}{5}$	4×5	$\times \frac{5}{2}$	5 × 5	$\frac{9}{\times 5}$	8 × 5	3×5	5 × 7

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			Multip	olying ł	oy 9 (A)		
Name:			D	ate:			Score	: /81
			Calcul	ate each p	product.			
6 ×9	9 ×9	$\frac{2}{\times 9}$	$\frac{4}{\times 9}$	$\frac{1}{\times 9}$	8 × 9	$\frac{3}{\times 9}$	7×9	5 ×9
9 × 8	9×4	9×2	9 × 7	9 ×9	9 <u>×1</u>	9 ×3	9 <u>× 5</u>	9 ×6
9 ×9	9 <u>×6</u>	$\frac{7}{\times 9}$	$\frac{1}{\times 9}$	9 <u>×4</u>	5 × 9	8 ×9	9 ×2	$\frac{3}{\times 9}$
4 ×9	6 ×9	$\frac{7}{\times 9}$	9 × 8	9 × 3	9 ×1	9 ×9	5 ×9	$\frac{2}{\times 9}$
9 <u>×9</u>	9 ×4	$\times 9^{6}$	9 × 7	$\frac{2}{\times 9}$	9 × 5	8 ×9	$\frac{3}{\times 9}$	$\times 9^{1}$
7 <u>×9</u>	9 ×9	$\frac{9}{\times 2}$	9×4	$\frac{1}{\times 9}$	6 × 9	5 ×9	8 ×9	9×3
5 ×9	9 ×7	$\frac{1}{\times 9}$	9 <u>×4</u>	9 × 8	$\frac{2}{\times 9}$	9 ×9	6 ×9	9 × 3
6 ×9	9 × 8	9 × 3	5 ×9	$\frac{1}{\times 9}$	$\frac{4}{\times 9}$	9×7	9 ×2	9 ×9
6 ×9	9 × 3	9 <u>× 8</u>	9 × 7	9 × 5	1 ×9	2 × 9	9 × 9	9 ×4

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	i i		Multip	lying b	y 3 (A))		
Name:			Da	ate:			Score:	/81
			Calcula	ate each p	roduct.			
$\times \frac{3}{3}$	$\frac{7}{\times 3}$	$\frac{2}{\times 3}$	$\times \frac{5}{3}$	9 ×3	4 <u>×3</u>	8 × 3	$\times \frac{6}{3}$	$\frac{1}{\times 3}$
$\frac{3}{\times 5}$	3 <u>×4</u>	$\frac{3}{\times 1}$	3 ×6	$\frac{3}{\times 7}$	$\frac{3}{\times 3}$	$\frac{3}{\times 9}$	$\frac{3}{\times 2}$	$\frac{3}{\times 8}$
$\frac{1}{\times 3}$	3 <u>× 8</u>	3 × 6	3 ×9	4 × 3	$\frac{2}{\times 3}$	$\frac{3}{\times 3}$	$\frac{7}{\times 3}$	$\frac{3}{\times 5}$
$\frac{3}{\times 6}$	$\frac{3}{\times 3}$	3 × 8	4 × 3	$\frac{2}{\times 3}$	$\times 3^7$	3×1	$\times \frac{3}{5}$	3 ×9
8 × 3	$\frac{3}{\times 7}$	4 <u>×3</u>	6 × 3	$\frac{1}{\times 3}$	$\frac{2}{\times 3}$	$\frac{3}{\times 9}$	$\frac{3}{\times 5}$	$\frac{3}{\times 3}$
$\frac{7}{\times 3}$	$\frac{3}{\times 9}$	$\frac{3}{\times 2}$	$\frac{3}{\times 4}$	3 × 5	8 × 3	6 <u>× 3</u>	$\frac{3}{\times 3}$	$\frac{1}{\times 3}$
$\frac{5}{\times 3}$	$\frac{3}{\times 7}$	$\frac{3}{\times 8}$	3 ×4	$\frac{3}{\times 3}$	$\frac{3}{\times 2}$	3 ×9	$\frac{1}{\times 3}$	6 × 3
$\frac{4}{\times 3}$	$\frac{3}{\times 7}$	8 <u>×3</u>	$\frac{1}{\times 3}$	$\frac{2}{\times 3}$	$\frac{3}{\times 5}$	3 <u>×6</u>	$\frac{3}{\times 9}$	$\times 3$
$\frac{1}{\times 3}$	3 × 8	5×3	$\frac{3}{\times 2}$	$\frac{9}{\times 3}$	$\frac{6}{\times 3}$	$\frac{3}{\times 3}$	$\frac{3}{\times 7}$	$\frac{4}{\times 3}$

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			Multip	olying l	oy 1 (A	.)		
Name:	Name:			ate:	Score	:/81		
			Calcul	ate each j	product.			
$\frac{9}{\times 1}$	5×1	$\frac{4}{\times 1}$	6×1	$\frac{2}{\times 1}$	$\frac{3}{\times 1}$	$\times 1$	$\frac{7}{\times 1}$	8 ×1
$\frac{1}{\times 4}$	$\frac{1}{\times 3}$	1 <u>×1</u>	$\frac{1}{\times 9}$	1 ×6	$\frac{1}{\times 8}$	$\frac{1}{\times 5}$	$\frac{1}{\times 7}$	$\frac{1}{\times 2}$
$\frac{1}{\times 8}$	5×1	$\frac{1}{\times 9}$	$\frac{1}{\times 6}$	$\frac{1}{\times 3}$	$\frac{1}{\times 4}$	$\frac{1}{\times 1}$	2 ×1	$\overset{7}{\times 1}$
$\frac{1}{\times 7}$	$\frac{1}{\times 3}$	$\frac{1}{\times 9}$	1 × 6	8 ×1	$\frac{1}{\times 4}$	$\frac{1}{\times 1}$	$\times \frac{1}{5}$	$\frac{2}{\times 1}$
$\frac{1}{\times 5}$	3 <u>×1</u>	$\frac{2}{\times 1}$	$\frac{1}{\times 6}$	$\frac{1}{\times 1}$	$\frac{7}{\times 1}$	4 ×1	$\times \frac{1}{8}$	9 ×1
$\frac{1}{\times 2}$	$\frac{1}{\times 5}$	$\frac{1}{\times 9}$	$\frac{1}{\times 1}$	$\frac{1}{\times 4}$	$\frac{8}{\times 1}$	7 <u>×1</u>	$\frac{1}{\times 3}$	$\frac{6}{\times 1}$
$\frac{1}{\times 1}$	$\frac{1}{\times 9}$	$\frac{1}{\times 7}$	8 ×1	5×1	$\frac{6}{\times 1}$	$\frac{3}{\times 1}$	4 <u>×1</u>	$\frac{2}{\times 1}$
$\frac{1}{\times 1}$	1 <u>×6</u>	$\frac{1}{\times 4}$	1 × 8	$\frac{1}{\times 9}$	7×1	5×1	$\frac{1}{\times 3}$	$\frac{1}{\times 2}$
$\frac{1}{\times 3}$	$\frac{1}{\times 1}$	7×1	$\frac{1}{\times 2}$	6 <u>×1</u>	$\frac{1}{\times 4}$	$\frac{1}{\times 8}$	$\frac{1}{\times 5}$	$\frac{1}{\times 9}$

		-	Multip	lying b	y 2 (A))		
Name:			Da	ate:			Score	/81
			Calcula	ate each p	roduct.			
$\times \frac{7}{2}$	3×2	9 ×2	5×2	$\times \frac{8}{2}$	$\frac{4}{\times 2}$	6 ×2	$\times \frac{1}{2}$	$\times \frac{2}{2}$
$\frac{2}{\times 7}$	$\frac{2}{\times 1}$	$\frac{2}{\times 6}$	$\frac{2}{\times 8}$	2 ×9	$\frac{2}{\times 3}$	$\frac{2}{\times 4}$	$\frac{2}{\times 5}$	$\frac{2}{\times 2}$
$\frac{2}{\times 4}$	9×2	$\frac{2}{\times 8}$	2 × 3	$\frac{1}{\times 2}$	$\frac{2}{\times 7}$	$\times \frac{2}{2}$	$\frac{5}{\times 2}$	2 × 6
7×2	$\frac{3}{\times 2}$	9 ×2	$\frac{2}{\times 2}$	8 ×2	2 ×6	$\times \frac{2}{5}$	$\frac{2}{\times 1}$	$\frac{2}{\times 4}$
2 ×9	$\frac{2}{\times 2}$	$\times \frac{2}{3}$	$\frac{2}{\times 5}$	$\frac{1}{\times 2}$	$\frac{4}{\times 2}$	$\frac{2}{\times 7}$	2 × 6	8 × 2
$\frac{8}{\times 2}$	$\frac{2}{\times 1}$	4×2	6 × 2	9 ×2	$\frac{7}{\times 2}$	5 ×2	$\frac{2}{\times 2}$	$\frac{2}{\times 3}$
2 ×6	$\frac{2}{\times 7}$	$\times \frac{2}{2}$	9 ×2	$\frac{3}{\times 2}$	$\frac{2}{\times 1}$	$\frac{4}{\times 2}$	8 ×2	$\frac{5}{\times 2}$
$\frac{6}{\times 2}$	2 ×9	$\frac{3}{\times 2}$	2×1	$\times \frac{2}{2}$	$\frac{4}{\times 2}$	2 ×8	$\frac{7}{\times 2}$	$\frac{2}{\times 5}$
$\frac{2}{\times 4}$	$\frac{2}{\times 8}$	$\frac{2}{\times 6}$	$\frac{1}{\times 2}$	$\frac{2}{\times 5}$	$\frac{2}{\times 2}$	$\frac{7}{\times 2}$	9×2	$\frac{3}{\times 2}$

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			Multip	lying t	oy 6 (A)		
Name:			Da	ate:			Score	:/81
			Calcul	ate each p	product.			
9 × 6	$\frac{4}{\times 6}$	$\frac{7}{\times 6}$	$\frac{2}{\times 6}$	$\frac{3}{\times 6}$	6 <u>×6</u>	$\frac{1}{\times 6}$	5 × 6	8 ×6
6 ×8	6 <u>×3</u>	6 ×1	$\times 2^{6}$	6 ×7	$\frac{6}{\times 4}$	6 ×6	6 <u>× 5</u>	6 ×9
7 ×6	8 ×6	3 × 6	6 ×9	6 ×2	6 × 5	6 <u>× 6</u>	1 <u>× 6</u>	4 <u>×6</u>
6 <u>×4</u>	6 <u>× 8</u>	6 <u>×1</u>	6 <u>× 3</u>	6 ×2	6 ×9	6 × 5	6 <u>× 6</u>	6 × 7
$\frac{2}{\times 6}$	$\frac{1}{\times 6}$	5×6	$\frac{6}{\times 3}$	9 ×6	6 <u>× 8</u>	6 <u>× 6</u>	6 <u>×4</u>	$\times \frac{7}{6}$
6 ×9	$\frac{1}{\times 6}$	$\frac{4}{\times 6}$	5 <u>× 6</u>	6 <u>× 7</u>	$\frac{6}{\times 2}$	6 <u>× 8</u>	6 × 6	$\times \frac{6}{3}$
5 × 6	$\frac{7}{\times 6}$	$\frac{1}{\times 6}$	8 × 6	6 ×4	6 × 6	$\frac{6}{\times 2}$	6 × 3	9 <u>× 6</u>
6 <u>× 4</u>	$\frac{2}{\times 6}$	6 <u>× 8</u>	6 <u>×1</u>	$\frac{6}{\times 3}$	$\frac{7}{\times 6}$	6 <u>× 6</u>	9 ×6	$\times \frac{6}{5}$
6 <u>× 6</u>	6 × 5	$\frac{4}{\times 6}$	6 ×9	6 <u>× 8</u>	$\frac{3}{\times 6}$	$\frac{2}{\times 6}$	1 ×6	7 <u>×6</u>

			Multip	lying b	y 8 (A))		
Name:			Da	ite:			Score:	/81
			Calculate each product.					
$\times \frac{6}{8}$	8 × 8	3 × 8	$\frac{2}{\times 8}$	$\frac{1}{\times 8}$	$\frac{7}{\times 8}$	9 × 8	5 × 8	$\frac{4}{\times 8}$
8 <u>×3</u>	8 ×6	$\times \frac{8}{2}$	8 ×9	8 × 5	$\frac{8}{\times 4}$	8 ×1	8 × 8	8 <u>×7</u>
4 × 8	8 × 5	$\frac{7}{\times 8}$	9 × 8	$\frac{8}{\times 3}$	$\frac{2}{\times 8}$	8 × 6	8 × 8	$\frac{8}{\times 1}$
6 × 8	$\frac{4}{\times 8}$	$\times \frac{8}{2}$	8 × 8	5 × 8	$\frac{8}{\times 1}$	8 × 3	9 × 8	8 ×7
8 × 8	8 ×9	$\frac{1}{\times 8}$	8 × 3	$\frac{8}{\times 2}$	$\frac{7}{\times 8}$	$\frac{6}{\times 8}$	$\times \frac{8}{5}$	$\frac{4}{\times 8}$
$\frac{2}{\times 8}$	8 ×7	6 × 8	8 × 8	8 <u>×4</u>	8 ×9	3 × 8	5 × 8	8 <u>×1</u>
8 ×9	$\frac{8}{\times 3}$	1 × 8	$\frac{2}{\times 8}$	8 × 6	8 × 8	8 ×7	5 <u>× 8</u>	4 × 8
$\frac{7}{\times 8}$	$\frac{8}{\times 1}$	8 × 8	6 <u>× 8</u>	$\frac{2}{\times 8}$	8 × 5	4 × 8	8 × 3	8 ×9
$\frac{8}{\times 1}$	8 × 6	8 ×9	8 × 8	$\frac{7}{\times 8}$	$\times \frac{8}{5}$	4 × 8	$\times \frac{8}{3}$	$\frac{8}{\times 2}$

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			Multip	lying t	oy 4 (A)		
Name:			Da	ate:		Score	:/81	
			Calcul	ate each p	product.			
9×4	$\frac{3}{\times 4}$	$\frac{4}{\times 4}$	$\frac{1}{\times 4}$	$\frac{6}{\times 4}$	$\frac{8}{\times 4}$	$\frac{2}{\times 4}$	$\frac{5}{\times 4}$	$\frac{7}{\times 4}$
4×5	4 <u>×1</u>	4×4	$\frac{4}{\times 3}$	4 ×9	$\frac{4}{\times 8}$	$\frac{4}{\times 2}$	$\frac{4}{\times 7}$	$\frac{4}{\times 6}$
4×1	8 ×4	4 × 5	$\frac{4}{\times 7}$	6×4	4 × 9	$\frac{4}{\times 4}$	4 ×2	$\frac{3}{\times 4}$
6 <u>×4</u>	$\frac{4}{\times 5}$	4 ×9	$\frac{1}{\times 4}$	$\frac{7}{\times 4}$	$\frac{4}{\times 4}$	$\frac{4}{\times 2}$	$\frac{4}{\times 3}$	4 <u>× 8</u>
8 <u>×4</u>	$\frac{4}{\times 9}$	$\frac{4}{\times 6}$	$\frac{4}{\times 4}$	$\frac{1}{\times 4}$	$\frac{4}{\times 2}$	$\frac{4}{\times 5}$	$\frac{3}{\times 4}$	4 × 7
4×4	$\frac{3}{\times 4}$	$\frac{8}{\times 4}$	4 <u>× 6</u>	$\frac{2}{\times 4}$	$\frac{4}{\times 1}$	$\frac{4}{\times 7}$	$\frac{5}{\times 4}$	$\frac{4}{\times 9}$
6 ×4	$\frac{4}{\times 4}$	$\frac{4}{\times 7}$	$\frac{4}{\times 3}$	4×1	9 ×4	4 <u>× 5</u>	$\frac{4}{\times 8}$	$\times \frac{2}{4}$
4 ×4	$\frac{5}{\times 4}$	$\frac{4}{\times 7}$	$\frac{4}{\times 2}$	6 ×4	$\frac{3}{\times 4}$	$\frac{1}{\times 4}$	$\frac{4}{\times 8}$	4 ×9
4 <u>×6</u>	$\frac{3}{\times 4}$	$\frac{4}{\times 5}$	4×7	2×4	$\frac{8}{\times 4}$	4 ×9	$\frac{4}{\times 1}$	$\frac{4}{\times 4}$

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			Multip	lying b	y 7 (A))		
Name:			Da	ite:			Score	/81
			Calcula	ate each p	roduct.			
$\frac{6}{\times 7}$	5 × 7	$\times \frac{2}{7}$	$\frac{1}{\times 7}$	$\times \frac{8}{7}$	$\times \frac{7}{7}$	$\frac{3}{\times 7}$	$\frac{9}{\times 7}$	$\frac{4}{\times 7}$
$\frac{7}{\times 2}$	7×3	$\frac{7}{\times 7}$	$\frac{7}{\times 1}$	7×4	$\frac{7}{\times 5}$	7 × 6	7 × 8	$\frac{7}{\times 9}$
$\frac{4}{\times 7}$	$\frac{7}{\times 7}$	9 × 7	$\frac{7}{\times 1}$	$\frac{7}{\times 3}$	$\frac{7}{\times 5}$	8 × 7	7 × 6	$\frac{2}{\times 7}$
$\frac{7}{\times 4}$	$\frac{7}{\times 8}$	6 <u>× 7</u>	7×2	5 × 7	$\frac{7}{\times 3}$	$\frac{7}{\times 7}$	9 <u>×7</u>	$\frac{1}{\times 7}$
7×6	4 ×7	8 × 7	$\frac{1}{\times 7}$	$\frac{2}{\times 7}$	3 ×7	9 ×7	5 × 7	$\frac{7}{\times 7}$
$\frac{7}{\times 2}$	$\frac{7}{\times 4}$	$\frac{7}{\times 3}$	$\frac{7}{\times 5}$	7 <u>× 6</u>	7 <u>×7</u>	$\frac{7}{\times 8}$	$\frac{1}{\times 7}$	9 × 7
7 × 7	$\frac{7}{\times 2}$	1 × 7	$\frac{7}{\times 5}$	$\frac{7}{\times 3}$	7 <u>× 6</u>	$\frac{7}{\times 8}$	$\frac{7}{\times 4}$	$\frac{7}{\times 9}$
6 <u>× 7</u>	$\frac{7}{\times 1}$	$\times \frac{8}{7}$	$\frac{7}{\times 4}$	$\frac{7}{\times 3}$	7 ×7	7×2	7 ×9	5 ×7
$\times \frac{4}{7}$	$\frac{7}{\times 8}$	$\frac{1}{\times 7}$	7 ×7	3×7	$\frac{7}{\times 2}$	7×5	7 <u>× 6</u>	9×7

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