engage^{ny} / Eureka Math

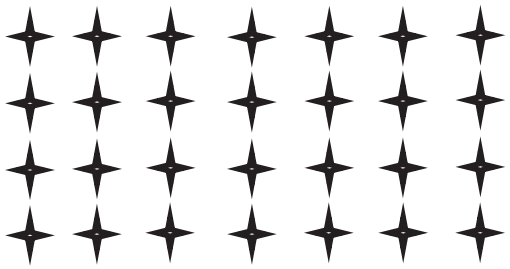
Exit Tickets

GRADE 3
MODULE 3

Version 3

Name _____ Date _____

1. Use the array to write two different multiplication facts.



_____ = _____ × _____

_____ = _____ × _____

2. Karen says, "If I know 3 × 8 = 24, then I know the answer to 8 × 3." Explain why this is true.

Name _____ Date _____

Use a fives fact to help you solve 7 × 6. Show your work using pictures, numbers, or words.

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Find the value of the unknown in Problems 1–4.

1. $z = 5 \times 9$
   $z =$ _____

2. $30 \div 6 = v$
   $v =$ _____

3. $8 \times w = 24$
   $w =$ _____

4. $y \div 4 = 7$
   $y =$ _____

5. Mr. Strand waters his rose bushes for a total of 15 minutes. He waters each rose bush for 3 minutes. How many rose bushes does Mr. Strand water? Represent the problem using multiplication and division sentences and a letter for the unknown. Then, solve the problem.

   _____ × _____ = _____

   _____ ÷ _____ = _____

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1. Sylvia solves 6 × 9 by adding 48 + 6. Show how Sylvia breaks apart and bonds her numbers to complete the ten. Then, solve.

2. Skip-count by six to solve the following:

   a. 8 × 6 = _____

   b. 54 ÷ 6 = _____

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Complete the count-by seven sequence below. Then, write a multiplication equation and a division equation to represent each number in the sequence.

7, 14, _____, 28, _____, 42, _____, _____, 63, _____

a. _____ × 7 = _____ _____ ÷ 7 = _____

b. _____ × 7 = _____ _____ ÷ 7 = _____

c. _____ × 7 = _____ _____ ÷ 7 = _____

d. _____ × 7 = _____ _____ ÷ 7 = _____

e. _____ × 7 = _____ _____ ÷ 7 = _____

f. _____ × 7 = _____ _____ ÷ 7 = _____

g. _____ × 7 = _____ _____ ÷ 7 = _____

h. _____ × 7 = _____ _____ ÷ 7 = _____

i. _____ × 7 = _____ _____ ÷ 7 = _____

j. _____ × 7 = _____ _____ ÷ 7 = _____

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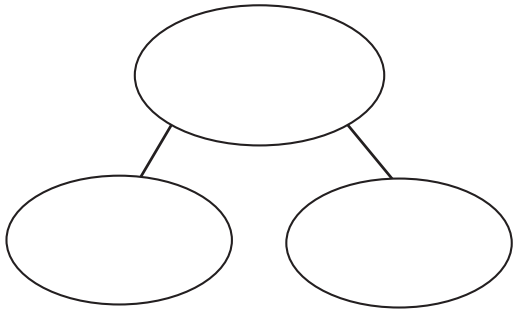
1. A parking lot has space for 48 cars. Six cars can park in 1 row. Break apart 48 to find how many rows there are in the parking lot.



2. Malia solves 6 × 7 using (5 × 7) + 7. Leonidas solves 6 × 7 using (6 × 5) + (6 × 2). Who is correct? Draw a picture to help explain your answer.

Name _____ Date _____

Model each problem with a drawing. Then, write an equation using a letter to represent the unknown, and solve for the unknown.

1. Three boys and three girls each buy 7 bookmarks. How many bookmarks do they buy all together?

2. Seven friends equally share the cost of a $56 meal. How much does each person pay?

Name _____ Date _____

1. Use parentheses to make the equations true.

   a. 24 = 32 – 14 + 6

   b. 12 = 32 – 14 + 6

   c. 2 + 8 × 7 = 70

   d. 2 + 8 × 7 = 58

2. Marcos solves 24 ÷ 6 + 2 = _____. He says it equals 6. Iris says it equals 3. Show how the position of parentheses in the equation can make both answers true.

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Simplify to find the answer to 18 × 3. Show your work, and explain your strategy.

Name _____ Date _____

Use the break apart and distribute strategy to solve the following problem. You may choose whether or not to draw an array.

7 × 8 =_____

Name _____ Date _____

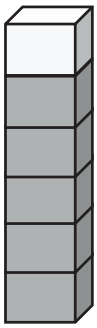
Erica buys some packs of rubber bracelets. There are 8 bracelets in each pack.

a. How many packs of rubber bracelets does she buy if she has a total of 56 bracelets? Draw a tape diagram, and label the total number of packages as *p*. Write an equation, and solve for *p*.

b. After giving some bracelets away, Erica has 18 left. How many bracelets did she give away?

Name _____ Date _____

1. Each  has a value of **9**. Complete the equations to find the total value of the tower of blocks.



_____ **× 9 =** (5 + ____) × 9

= (5 × _____) + (_____ × _____)

= 45 + _____

= _____

2. Hector solves 9 × 8 by subtracting 1 eight from 10 eights. Draw a model, and explain Hector's strategy.

Name _____ Date _____

1. $6 \times 9 = 54$

   What is 10 more than 54? _____

   What is 1 less? _____

   $7 \times 9 =$ _____

   $8 \times 9 = 72$

   What is 10 more than 72? _____

   What is 1 less? _____

   $9 \times 9 =$ _____

2. Explain the pattern used in Problem 1.

Name _____ Date _____

Donald writes 6 × 9 = 54. Explain two strategies you could use to check his work.

Name _____ Date _____

Use a letter to represent the unknown.

1. Mrs. Aquino pours 36 liters of water equally into 9 containers. How much water is in each container?

2. Marlon buys 9 packs of hot dogs. There are 6 hot dogs in each pack. After the barbeque, 35 hot dogs are left over. How many hot dogs were eaten?

Name _____ Date _____

1. Complete.

a. _____ × 1 = 5

b. 6 × _____ = 6

c. _____ ÷ 7 = 0

d. 5 × _____ = 0

e. 1 = 9 ÷ _____

f. 8 = 1 × _____

2. Luis divides 8 by 0 and says it equals 0. Is he correct? Explain why or why not.

Name _____ Date _____

1. Use what you know to find the product of 8 × 12 or 6 eights + 6 eights.

2. Luis says 3 × 233 = 626. Use what you learned about odd times odd to explain why Luis is wrong.

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Use the RDW process to solve. Explain why your answer is reasonable.

On Saturday, Warren swims laps in the pool for 45 minutes. On Sunday, he runs 8 miles. It takes him 9 minutes to run each mile. How long does Warren spend exercising over the weekend?

Name _____ Date _____

1. Use the chart to complete the blanks in the equations.

tens	ones
	

tens	ones
	

6 × 5 ones = _____ ones

6 × 5 = _____

6 × 5 tens = _____ tens

6 × 50 = _____

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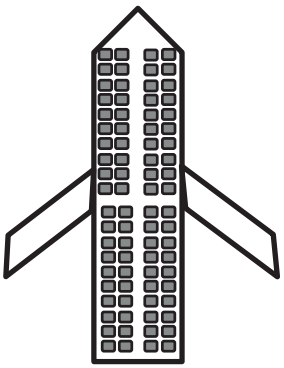
2. A small plane has 20 rows of seats. Each row has 4 seats.

   a. Find the total number of seats on the plane.



   b. How many seats are on 3 small planes?

Name _____ Date _____

1. Place parentheses in the equations to find the related fact. Then, solve.

a. $4 \times 20 = 4 \times 2 \times 10$

$= 4 \times 2 \times 10$

$=$ _____ $\times 10$

$=$ _____

b. $3 \times 30 = 3 \times 3 \times 10$

$= 3 \times 3 \times 10$

$=$ _____ $\times 10$

$=$ _____

2. Jamila solves 20×5 by thinking about 10 tens. Explain her strategy.

Name _____ Date _____

Use the RDW process to solve. Use a letter to represent the unknown.

Frederick buys a can of 3 tennis balls. The empty can weighs 20 grams, and each tennis ball weighs 60 grams. What is the total weight of the can with 3 tennis balls?