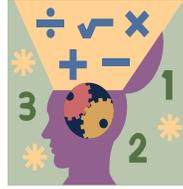


Name: _____ Section: _____



Homework

This week we will start Chapter 12 (Multiply by 1-Digit Numbers)
Complete homework daily based on the schedule provided below. Please do not work ahead on homework assignments. Failure to complete homework will result in points deducted.

Scholars will complete a quiz on Friday, December 15th

Reminders

Please have your child use Reflex Math to master and reinforce their fact fluency. The 3rd Grade curriculum depends on a strong foundation in multiplication and division facts.

Extra Practice

Additional practice for the daily lesson is available on HMH. To access login in into HMH, go to assigned lessons. There you can find the assigned lessons for extra practice. Scholars can also review daily lesson on Archimedean Cinemath, under section 3A for all sections.

Notes

Please upload homework on Archie by **Sunday, December 17th**
Please feel free to contact me with any questions or concerns at diana.charaf@archimedean.org.

Monday, December 11th – pages: 545, 546

Tuesday, December 12th – pages: 551, 552

Wednesday, December 13th –pages: 569, 570

Thursday, December 14th _ pages:563, 564

Friday, December 15th _pages:575, 576

Multiplication Comparisons

Go Online

Interactive Examples

Write a comparison sentence.

1. $6 \times 3 = 18$

6 times as many as 3 is 18.

2. $63 = 7 \times 9$

_____ is _____ times as many as _____.

3. $5 \times 11 = 55$

_____ times as many as _____ is _____.

4. $48 = 8 \times 6$

_____ is _____ times as many as _____.

Write an equation.

5. 2 times as many as 8 is 16.

6. 42 is 6 times as many as 7.

7. 3 times as many as 5 is 15.

8. 36 is 12 times as many as 3.

Problem Solving

9. Metin is 14 years old. Zeki is 7 years old.
How many times as old as Zeki is Metin?

10. There are 27 campers. This is nine times as
many as the number of counselors. How
many counselors are there?

11.  *Math* Draw a model, and write an
equation to represent “4 times as many as 3 is 12.”
Explain your work.

Lesson Check

12. Write an equation that represents this comparison sentence.

24 is 4 times as many as 6.

13. Write a comparison sentence that represents this equation.

$$5 \times 9 = 45$$

Spiral Review

14. Which symbol makes the following statement true?

$$547,098 \bigcirc 574,908$$

15. What is the standard form for $200,000 + 80,000 + 700 + 6$?

16. Sean and Leona are playing a computer game. Sean scored 72,491 points. Leona scored 19,326 points more than Sean. How many points did Leona score?

17. A baseball stadium has 38,496 seats. Rounded to the nearest thousand, how many seats is this?

Comparison Problems

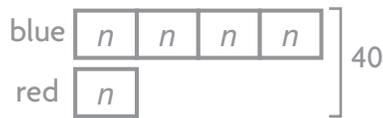
Go Online

Interactive Examples

Draw a model. Write an equation and solve.

1. Sarita made a necklace using 4 times as many blue beads as red beads. She used a total of 40 beads. How many blue beads did Sarita use?

Think: Sarita used a total of 40 beads. Let n represent the number of red beads.



$$5 \times n = 40; 5 \times 8 = 40;$$

$$4 \times 8 = 32 \text{ blue beads}$$

2. At the zoo, there were 3 times as many monkeys as lions. Tom counted a total of 11 lions. How many monkeys were there?

Problem Solving

3. Rafael counted a total of 40 white cars and yellow cars. There were 9 times as many white cars as yellow cars. How many white cars did Rafael count?

4. Is the equation true or false? Explain.

$$6 \times 12 = 12 + 12 + 12 + 12 + 12 + 12$$

5.  **WRITE** *Math* Write a problem involving *how much more than* and solve it. Explain how drawing a diagram helped you solve the problem.

Lesson Check

6. Sari has 3 times as many pencil erasers as Sam. Together, they have 28 erasers. How many erasers does Sari have?

7. Is the equation true or false? Explain.

$$3 \times 8 = 8 + 8 + 8 + 8 + 8 + 8 + 8$$

Spiral Review

8. Barbara has 9 stuffed animals. Trish has 3 times as many stuffed animals as Barbara. How many stuffed animals does Trish have?

9. There are 104 students in the fourth grade at Suvi's school. One day, 15 fourth-graders were absent. How many fourth-graders were at school that day?

10. Joshua has 112 rocks. Jose has 98 rocks. Albert has 107 rocks. Write the boy's names in order from the least to the greatest number of rocks owned.

11. Alicia has 32 stickers. This is 4 times as many stickers as Benita has. How many stickers does Benita have?

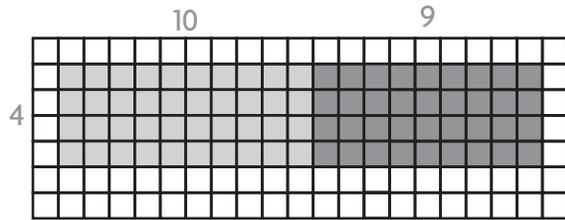
Multiply Using the Distributive Property

Go Online

Interactive Examples

Model the product on the grid. Record the product.

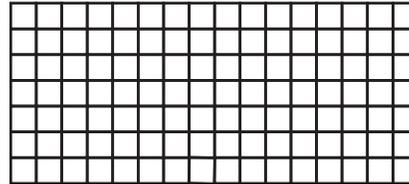
1. $4 \times 19 = \underline{76}$



$4 \times 10 = 40$ and $4 \times 9 = 36$

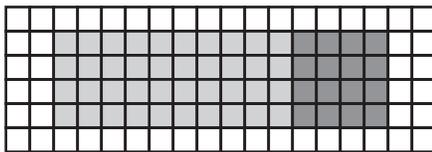
$40 + 36 = 76$

2. $5 \times 13 = \underline{\hspace{2cm}}$

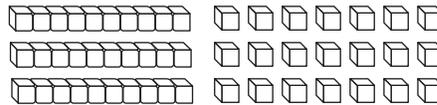


Find the product.

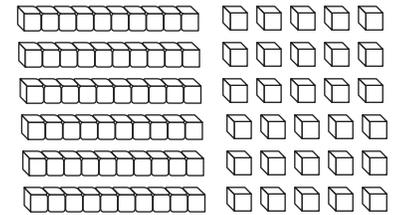
3. $4 \times 14 = \underline{\hspace{2cm}}$



4. $3 \times 17 = \underline{\hspace{2cm}}$

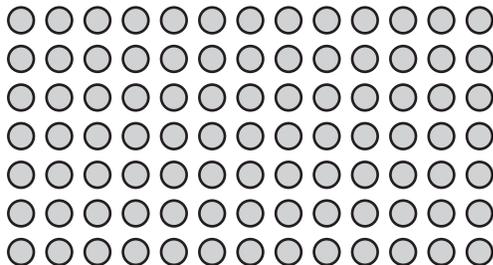


5. $6 \times 15 = \underline{\hspace{2cm}}$



Problem Solving

6. Michael arranged his pennies in the following display.

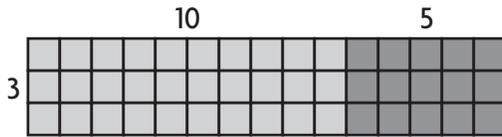


How many pennies does Michael have in all?

7. **WRITE**  *Math* Explain how you can use a model to find 6×17 .

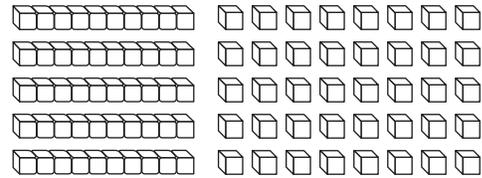
Lesson Check

8. The model shows how Gig planted flowers in his garden.



How many flowers did Gig plant?

9. The model below represents the expression 5×18 .



How many tens will there be in the final product?

Spiral Review

10. Center City has a population of twenty-one thousand, seventy people. Write the population in standard form.
11. Central School collected 12,516 pounds of newspaper to recycle. Eastland School collected 12,615 pounds of newspapers. How many more pounds of newspaper did Eastland School collect than Central School?
12. Imelda has 5 times as many baseball cards as football cards. In all, she has 120 baseball and football cards. How many baseball cards does Imelda have?
13. A ruby-throated hummingbird beats its wings about 53 times each second. About how many times does a ruby-throated hummingbird beat its wings in 5 seconds?

Name _____

Estimate Products by 1-Digit Numbers

Go Online

Interactive Examples

Estimate the product by rounding.

1. 4×472

4×472



4×500

2,000

2. $2 \times 6,254$

3. 9×54

4. $5 \times 5,503$

Find two numbers the exact answer is between.

5. 3×567

6. $6 \times 7,381$

7. 4×94

8. 8×684

Problem Solving

9. Cato drinks 8 glasses of water each day. He says he will drink 2,920 glasses of water in a year that has 365 days. Is the exact answer reasonable? **Explain.**

10. Most Americans throw away about 1,365 pounds of trash each year. Is it reasonable to estimate that Americans throw away over 10,000 pounds of trash in 5 years? **Explain.**

11.  **WRITE** *Math* Describe a real-life multiplication situation for which an estimate makes sense.

Lesson Check

12. A theater has 4,650 seats. If the theater sells all the tickets for each of its 5 shows, about how many tickets will the theater sell?
-
13. Washington Elementary has 4,358 students. Jefferson High School has 3 times as many students as Washington Elementary. About how many students does Jefferson High School have?
-

Spiral Review

14. Tell whether each equation is true or false.
- a. $6 \times 3 = 6 + 6 + 6$ _____
- b. $2 \times 5 = 5 + 5 + 5 + 5 + 5$ _____
- c. $7 \times 4 = 4 + 4 + 4 + 4 + 4 + 4$ _____
- d. $8 + 8 + 8 + 8 = 4 \times 8$ _____
15. Mr. Turkowski bought 4 boxes of envelopes at the office supply store. Each box has 500 envelopes. How many envelopes did Mr. Turkowski buy?
-
16. Pennsylvania has a land area of 44,816 square miles. What is the land area of Pennsylvania rounded to the nearest hundred?
-

17. The table shows the types of movies people downloaded last month.

Movie Downloads	
Type	Number Downloaded
Comedy	6,720
Drama	4,032
Action	5,540

How many comedy and action movies were downloaded last year?

Multiply Using Expanded Form

Go Online

Interactive Examples

Record the product. Use expanded form to help.

1. $7 \times 14 = \underline{\hspace{2cm}}$ **98**

$$\begin{aligned} 7 \times 14 &= 7 \times (10 + 4) \\ &= (7 \times 10) + (7 \times 4) \\ &= 70 + 28 \\ &= 98 \end{aligned}$$

2. $8 \times 43 = \underline{\hspace{2cm}}$

3. $6 \times 532 = \underline{\hspace{2cm}}$

4. $5 \times 923 = \underline{\hspace{2cm}}$

Problem Solving

5. The fourth-grade students at Riverside School are going on a field trip. There are 68 students on each of the 4 buses. How many students are going on the field trip?

6. There are 5,280 feet in one mile. Fatima likes to walk 5 miles each week for exercise. How many feet does Fatima walk each week?

7.  Explain how you can find 3×584 using expanded form.

Lesson Check

8. Write an expression that shows how to multiply 7×256 using expanded form and the Distributive Property.
9. Sue uses the expression $(8 \times 3,000) + (8 \times 200) + (8 \times 9)$ to help solve a multiplication problem. What is Sue's multiplication problem?

Spiral Review

10. What is another way to write 9×200 ?
11. What is the value of the digit 4 in 46,000?

12. Zaide bought 6 packages of napkins for his restaurant. There were 200 napkins in each package. How many napkins did Zaide buy?
13. List these numbers in order from **least** to **greatest**.
8,251; 8,125; 8,512
