

3rd Grade American Math HW 18

Chapter 15: Understand Perimeter

Dear Family,

During the next few weeks, our math class will be learning more about perimeter of figures. You can expect to see homework that provides practice with measuring and finding perimeter, by counting units around a figure, adding measured lengths, and by using a formula.

Vocabulary

- **Composite Figure:** A figure made by joining one or more figures.
- **Perimeter:** The distance around a figure.
- **Formula:** A mathematical rule.

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- **Homework due date: Sunday, Feb. 7th** (Upload Homework on Archie)
 - **Chapter 10 Test: Thursday, Feb. 5th**
 - This week, we will begin Chapter 15. However, on Thursday, students will be taking the Chapter 10 test. Please use the homework packet to review and prepare for the test.
 - **Feel free to contact me with any questions at diana.charaf@archimedean.org**

Complete homework daily based on the schedule provided below:

Monday 02/02	Pages: 495 - 496
Tuesday 02/03	Pages: 497 - 498
Wednesday 02/04	Pages: 499 - 500
Thursday 02/05	IXL Lessons: VLG - XP5
Friday 02/06	IXL Lessons: LLY - PCZ

Name _____

Chapter Review

1. The camping club wants to rent rafts. Each raft can hold 8 people. Which equation could be used to find how many rafts are needed for 32 people?

(A) $8 \times 32 = \blacksquare$

(B) $32 \times \blacksquare = 8$

(C) $\blacksquare \times 8 = 32$

(D) $32 \times 8 = \blacksquare$

2. Draw a bar model and write a multiplication expression to represent the comparison *4 times as many as 9*.

Find the unknown number.

4. $m \times 5 = 30$

$m = \underline{\hspace{2cm}}$

6. $20 = 2 \times n$

$n = \underline{\hspace{2cm}}$

8. $7 = 63 \div y$

$y = \underline{\hspace{2cm}}$

5. $48 \div \blacksquare = 6$

$\blacksquare = \underline{\hspace{2cm}}$

7. $p \div 8 = 4$

$p = \underline{\hspace{2cm}}$

9. $1 \times 10 = \star$

$\star = \underline{\hspace{2cm}}$

For Problems 10 and 11, describe a pattern for the table. Then complete the table.

10.

Weeks	1	2	3	4	5
Days	7	14	21		

11.

Tickets	2	3	4	5	6
Cost	\$8	\$12	\$16		

12. Giana says that 33 is an even number. Is she correct? Explain.

- (A) yes; You can make 2 equal groups with one left over.
- (B) yes; You can make 2 equal groups.
- (C) no; You can make 2 equal groups with one left over.
- (D) no; You can make 2 equal groups.

13. List the first five multiples of 9.

14. Which numbers are a multiple of *oth* 3 and 4? (Hint: There is more than one answer.)

- (A) 12
- (B) 6
- (C) 21
- (D) 36
- (E) 24
- (F) 16
- (G) 20

Name _____

15. Derek has 6 dogs. Each dog gets 3 dog biscuits every day. How many biscuits will Dexter need for all of his dogs for Saturday and Sunday?

- (A) 18
- (B) 8
- (C) 16
- (D) 36

16. Brooklyn has 10 dolphin stickers. Jorge's stickers can be represented by 3×10 . Which comparison statement describes the expression?

- (A) Brooklyn has 10 more stickers than Jorge.
- (B) Jorge has 3 times as many stickers as Brooklyn.
- (C) Brooklyn has 3 more stickers than Jorge.
- (D) Jorge has 3 fewer stickers than Brooklyn.

17. Explain why 60 is a multiple of 5, 6, 10, and 12. You can write equations as part of your explanation.

18. Hanya's puppy weighs 23 pounds. If he gains 3 pounds every month for the next five months, how much will the puppy weigh at the end of the fifth month?

19. Tim describes a pattern. He says the pattern shown in the table is “Add 3.” Is Tim correct? Explain how you know.

Packages	1	2	3	4	5
Markers	4	8	12	16	20

20. There are 54 students in the marching band. They form equal rows, so that there are no fewer than 5 rows and no more than 10 students in each row. Which is an array that the students could use?

- (A) 6 rows of 9 students (C) 10 rows of 5 students
 (B) 5 rows of 10 students (D) 6 rows of 8 students

21. Describe a pattern for this table.

Tanks	3	4	5	6	7
Fish	240	320	400	480	560

Pattern: _____

How would the table change if the pattern was “Multiply the number of tanks by 8”? Explain.

Name _____

22. Sally has 4 comic books. Renaldo has 6 comic books. Jay has 2 times as many comic books as Sally and Renaldo combined. Which expression represents the number of comic books Jay has compared to Sally and Renaldo combined?

- (A) $4 + 6$
- (B) 2×6
- (C) 2×10
- (D) $2 \div 10$

23. The camping club rents 4 rafts. How many people can 4 rafts hold?

- (A) 28
- (B) 30
- (C) 42
- (D) 32

Rafts	1	2	3	4
People	8	16	24	■

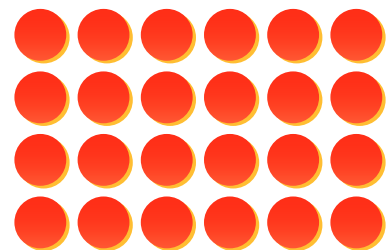
24. There are 24 students in Mr. Smith's class and 30 students in Mr. Becker's class. The students sit in chairs in the gymnasium in rows with 6 chairs in each row. How many rows of chairs are there in all?

- (A) 54
- (B) 4
- (C) 9
- (D) 5

25. Use the array. Which number makes the equation true?

$24 \div 4 = \underline{\hspace{2cm}}$

- (A) 6
- (B) 8
- (C) 20
- (D) 12



26. For Problems 26a–26d, choose Odd or Even to describe the product.

26a. 52×98 Odd Even

26b. 25×30 Odd Even

26c. 84×43 Odd Even

26d. 49×71 Odd Even

27. Circle all the numbers that are divisible by 2.

115 275 566 328 459 732

28. The number of marbles in a jar is a multiple of 8. Which of these could be the number of marbles in the jar? Select all that apply.

(A) 24

(B) 38

(C) 40

(D) 56

(E) 62

(F) 84

29. O'Shunti has a new book for her stickers. She uses pages that hold 8 stickers and pages that hold 4 stickers. If O'Shunti has 32 stickers, how many different ways can she put them in her book? Complete the table and write the answer below.

Pages with 8 Stickers	1	2		4
Pages with 4 Stickers	6		2	
Total Stickers	32			

O'Shunti can put the stickers in her book _____ ways.