

Unit 2 Study Guide

Name: _____

Date: _____

1. One box of donuts costs \$4. How much will 7 boxes of donuts cost?

2. Mrs. Jones has 6 pencil boxes for each group in her classroom. She puts 5 pencils in each pencil box.

Figure 1

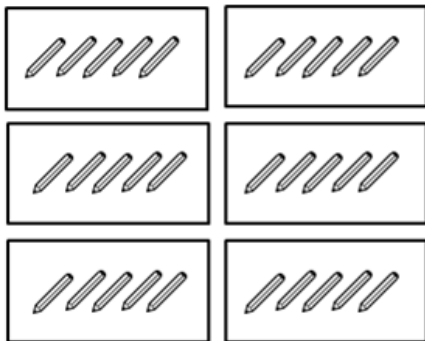
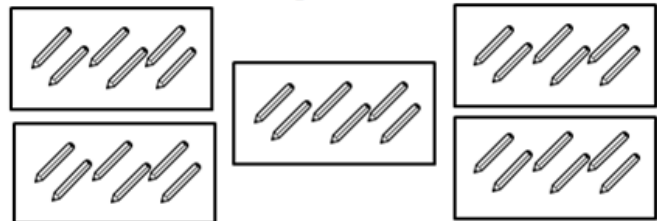


Figure 2



Part A: Which figure represents how Mrs. Jones put her pencils in the boxes?

Part B: Write an equation with a letter standing for the unknown quantity.

3. Steven organized his baseball trading cards into 7 rows of 4. Choose TWO equations that correctly show the total number of baseball trading cards Steven lined up.

- A. $7 \times 4 = (7 \times 2) + (7 \times 2)$
- B. $7 \times 4 = (4 \times 2) + (3 \times 2)$
- C. $7 \times 4 = (4 \times 4) + (3 \times 4)$
- D. $7 \times 4 = (6 \times 2) + (1 \times 2)$
- E. $7 \times 4 = (3 \times 3) + (4 \times 1)$

4. Ms. Fisher wants to find the total number of markers needed for an art project. She uses the expression shown to find how many markers she needs.

$$(3 \times 4) \times 9$$

Which expression is equivalent to the expression Ms. Fisher used?

- A. $(3 + 9) \times 4$
- B. $3 \times (4 \times 9)$
- C. $(3 + 4) \times 9$
- D. $3 \times (4 + 9)$

5. Riley counted 6 ants on the picnic table. How many legs will be on 6 ants? Complete the table to show your thinking.

Number of ants	Number of legs
1	6
2	12
3	18
4	
5	
6	

6. Connor writes the statement below.

$$4 \times 6 = 24 \quad \text{so} \quad 6 \times 4 = 24$$

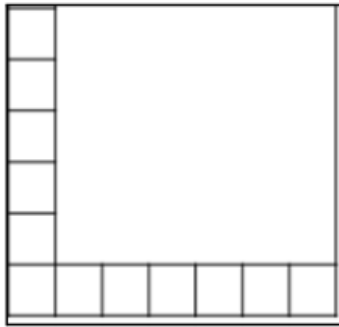
Which statement explains why Malcolm is correct or incorrect?

- A. Malcolm is correct because you can multiply the factors in any order and get the same product.
- B. Malcolm is correct because you can separate numbers in parts so that numbers are easier to work with when you multiply.
- C. Malcolm is incorrect because 2×8 does not equal 16.
- D. Malcolm is incorrect because you cannot change the order of the factors to multiply.

7. Jayda has some fabric to use to make a rectangular rug. Which dimensions would give her the most coverage (area) when she uses it to cover up?

- A. 3 feet by 9 feet
- B. 3 feet by 6 feet
- C. 2 feet by 4 feet
- D. 7 feet by 5 feet

8. Sienna is putting tile in her bathroom as shown. What is the area of the bathroom? Show your mathematical thinking.



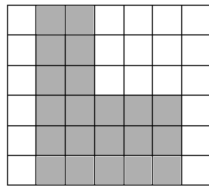
 = 1 square ft.

9. Write a multiplication equation to represent the diamond array.



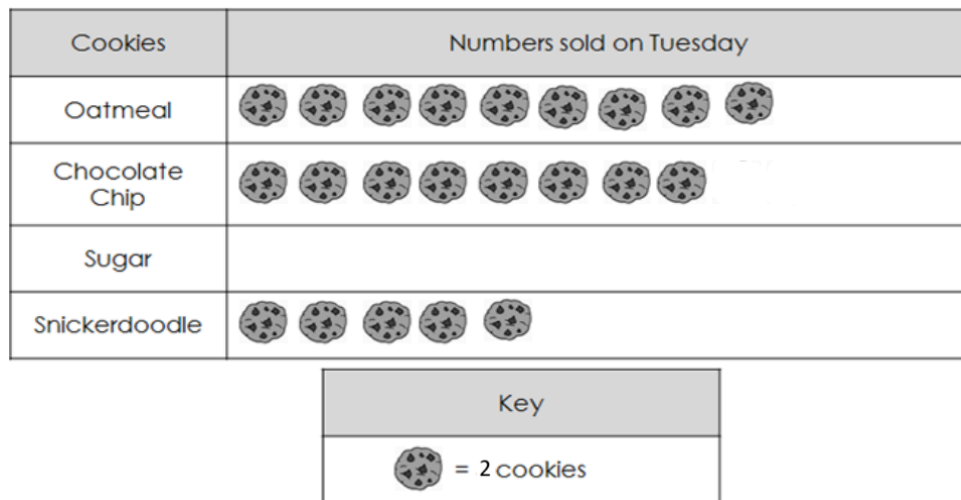
10. Nyla is looking for seashells on the beach. She is only going to look for the seashells in a 16 feet by 3 feet rectangular area. What is the area of the space she is searching in square feet? Use words or pictures to explain your solution.

11. Mr. Silver is thinking about building an L-shaped desk to use in his classroom. Here is the blueprint he made:



What is the area, in square units, of the desk?

12. A local bakery sells cookies. The pictograph shows the number of cookies sold on Tuesday.



Part A: Six fewer sugar cookies were sold than chocolate chip cookies. Complete the picture graph to show the number of sugar cookies that were sold on Tuesday.

Part B: How many fewer snickerdoodle cookies were sold than chocolate chip cookies?

13. Jade was practicing multiplication using a multiplication table and noticed a pattern when she multiplied by 4.

x	1	2	3	4	5	6
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36

What pattern does Jade notice when she multiplies by 4?

- A. all the numbers have an even number in the ones place
- B. all the numbers ends with a 0 or 5
- C. all of the numbers ends with an odd number
- D. all of the numbers have a zero in the ones place

14. Deonte has 5 boxes of toy cars with 8 toy cars in each box.

Part A: Shade the squares to show the total number of toy cars Deonte has. Each shaded square represents one toy car.

Part B: Hayley said she has 56 hair bows. Is Deonte correct? Why or why not?