1. The dance company wants to rent trunks to hold their costumes when they travel. Each trunk can hold costumes for 6 dancers. Which equation could be used to find how many trunks are needed for 48 dancers?

Ⓐ $6 \times 48 = \square$

Ⓑ $48 \times \square = 6$

Ⓒ $48 \times 6 = \square$

Ⓓ $\square \times 6 = 48$

2. Select the equations that show the Distributive Property. Mark all that apply.

Ⓐ $3 \times 60 = 3 \times (20 + 20 + 20)$

Ⓑ $5 \times 20 = (5 \times 2) \times (5 \times 10)$

Ⓒ $50 \times 7 = 7 \times 50$

Ⓓ $8 \times (10 + 30) = 8 \times 40$

3. Choose the number from the box that makes the sentence true.

Study hall has 63 desks. There are 9 desks in each row.

There are | 7
8
9 | rows of desks in study hall.

GO ON

4. For numbers 4a-4d, choose True or False for each equation.

4a.	$9 \times (3 + 3) = 9 \times 6$	○ True	○ False
4b.	$9 \times (4 + 4) = 9 \times 6$	○ True	○ False
4c.	$(3 \times 9) + (2 \times 9) = 9 \times 6$	○ True	○ False
4d.	$(9 \times 4) + (9 \times 2) = 9 \times 6$	○ True	○ False

5. Carmen keeps her card collection in a folder with 20 pages. Each page has 8 cards. Willie has 150 cards in his collection. Does Carmen have more, fewer, or the same number of cards as Willie?

(A) She has more cards than Willie.

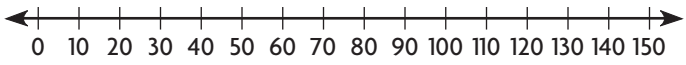
(B) She has the same number of cards as Willie.

(C) She has fewer cards than Willie.

6. For items 6a–6d, choose Yes or No to show whether the unknown factor is 9.

6a.	$6 \times \square = 56$	○ Yes	○ No
6b.	$\square \times 4 = 42$	○ Yes	○ No
6c.	$8 \times \square = 72$	○ Yes	○ No
6d.	$\square \times 50 = 450$	○ Yes	○ No

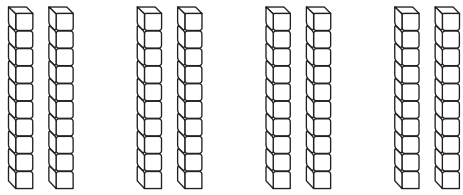
7. Each bus can carry 40 people. Use the number line to find how many people 3 buses can carry.



_____ people

GO ON

8. Neil made this multiplication model. Complete the equation that represents the model.



_____ × _____ = _____

9. A flower shop delivers fresh flower bouquets to hotels each week. Which hotel buys the least number of flowers?

Hotel	Number of Flowers in 1 Bouquet	Number of Bouquets
Welcome Inn Hotel	7	50
Wild Rose Hotel	8	60
Bayside Hotel	6	70
Hotel Ranchero	5	80

_____

10. A store has 3 crates of oranges. Each crate holds 2 boxes. Each box holds 20 oranges. What is the total number of oranges in the store?

_____ oranges

11. The new lion cub at the zoo weighs 41 pounds. He has been gaining 5 pounds every month as he grows. If this pattern continues, how much will the cub weigh 4 months from now?

_____

GO ON

12. Shelly describes a pattern. She says the pattern shown in the table is "Add 5." Is Shelly correct? Explain how you know.

Packages	1	2	3	4	5
Markers	6	12	18	24	30

13. This shows a part of a multiplication table. Find the missing numbers. Explain how you found the numbers.

28	32
35	

14. Describe a pattern for this table.

CDs	4	5	6	7	8
Minutes of Music	200	250	300	350	400

Pattern: _____

How would the table change if the pattern was "Multiply the number of CDs by 5"? Explain.

GO ON

15. Aroon has 180 cat toys to pack in boxes. He packs 30 toys in each box. How many boxes does he need?

Write an equation using the letter *n* to stand for the unknown factor. Explain how to find the unknown factor.

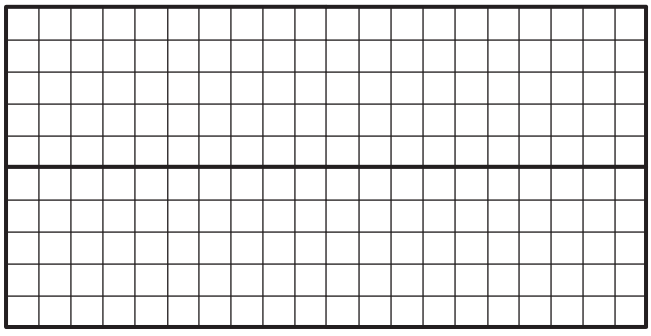
_____

_____

_____

16. A store has 5 shelves of soup. There are 20 cans of soup on each shelf. How many cans of soup does the store have?

Shade squares to make a diagram to show how you can use the Distributive Property to find the number of cans of soup in the store.



_____ cans of soup

GO ON

17. Beth saves all her dimes. Today she is getting them out of her coin jar and wrapping them to take to the bank. She finds she has 400 dimes. It takes 50 dimes to fill each paper wrapper and make a roll. How many wrappers does she need?

Part A

Write an equation using *n* for the unknown factor. Find the number of wrappers needed.

_____ × _____ = _____

Part B

Explain how you solved this problem and how you know your answer is correct.

_____

_____

18. Two friends have jobs at the mall. Juan works 40 hours each week and earns $9 per hour. Thomas works 50 hours per week and earns $7 per hour.

Part A

Who earns more each week? _____

Part B

Explain how you found your answer.

_____

_____

_____

_____

_____

_____