

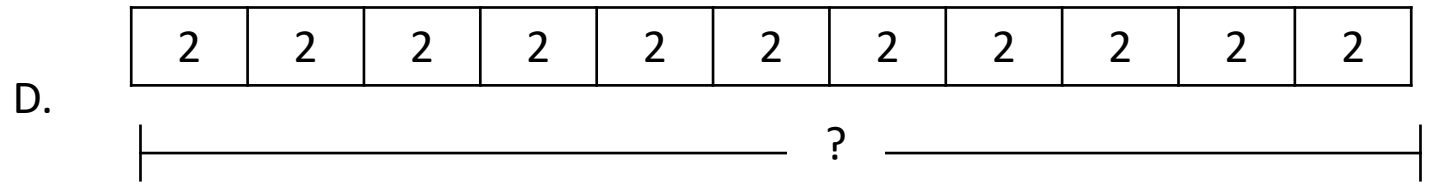
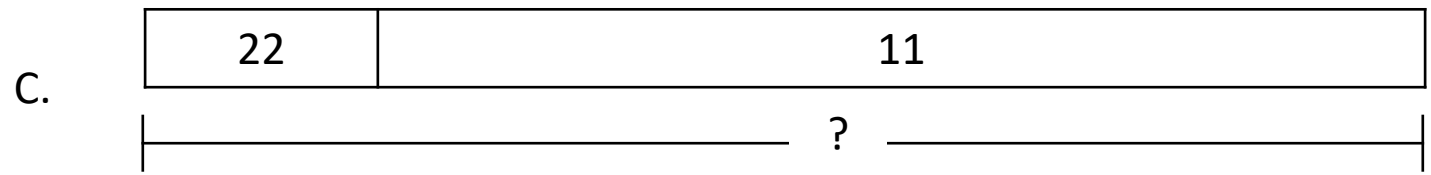
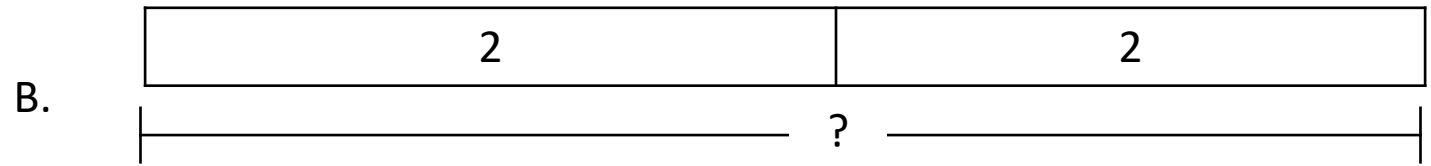
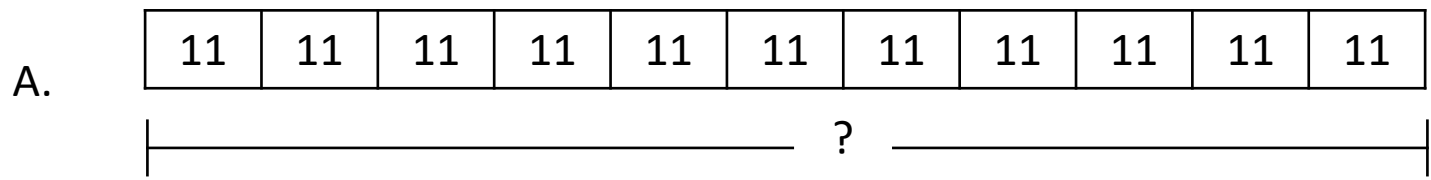
**Unit: 3<sup>rd</sup> – Deeper into Multiplication & Division**  
**Lesson: 3.5.B - Represent Multiplication and Division Multi-Step Word Problems**  
**Problem Set: 1**

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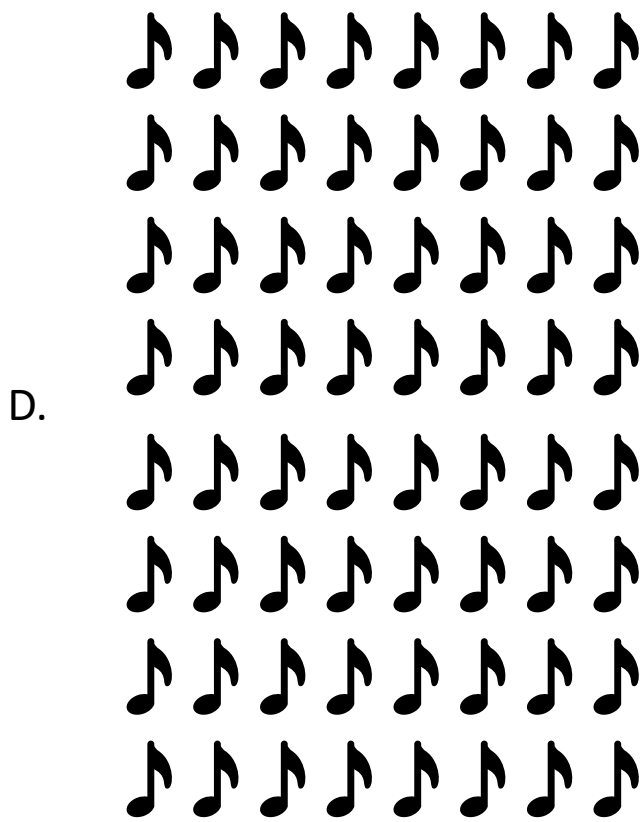
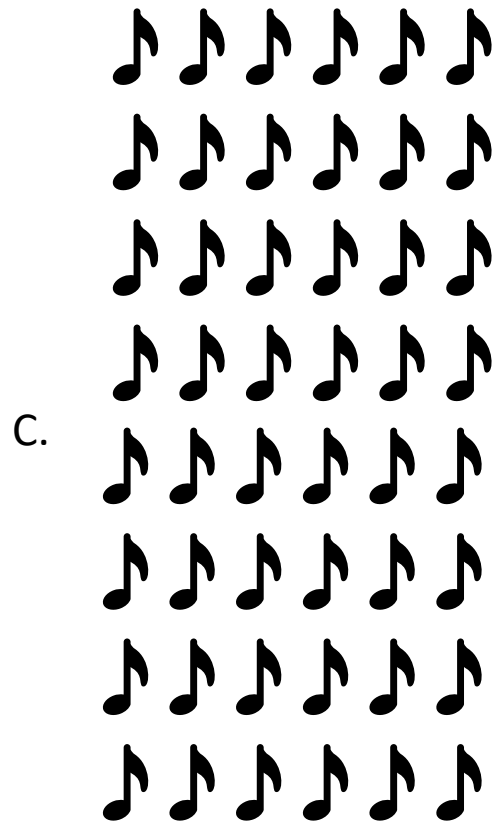
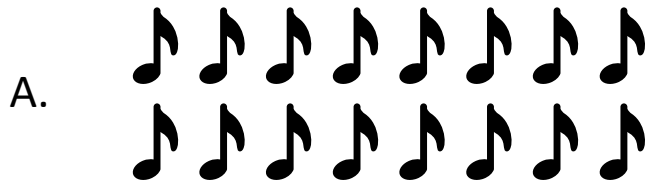
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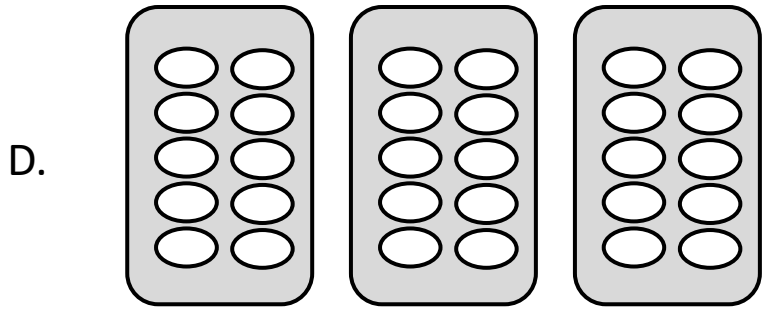
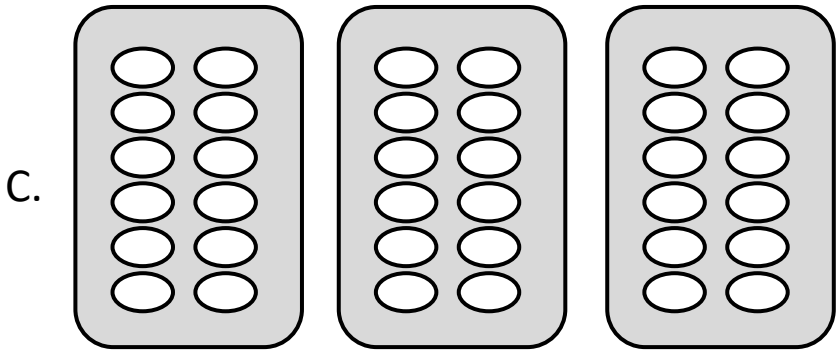
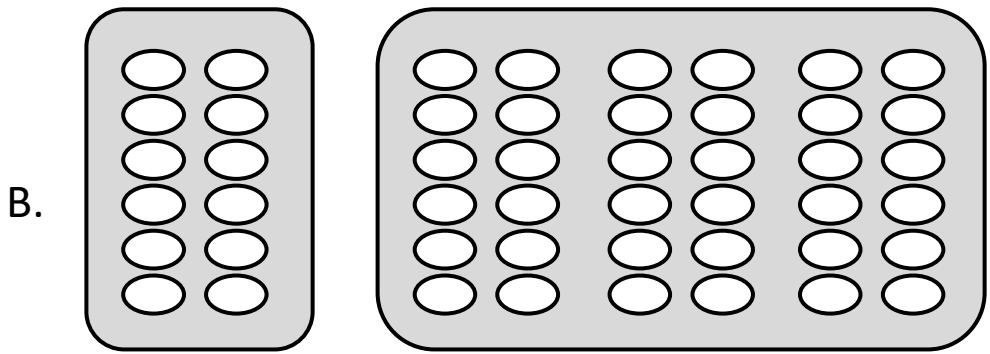
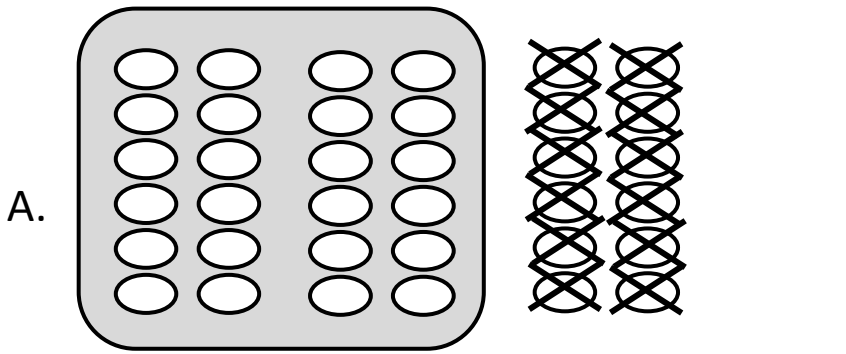
1. Yolanda made 11 sandwiches for a picnic. She used 2 pieces of bread for each sandwich. Which strip diagram can be used to find the number of pieces of bread Yolanda used?



2. A band plays 8 songs at every show. Last year the band had 8 shows. Which model can be used to find the number of songs the band played at shows last year?



3. Victor bought 36 eggs at a grocery store. The eggs were in cartons with 12 eggs in each carton. Which model best represents the number of cartons of eggs Victor bought?



4. Cassandra used all the balloons in 11 packages to decorate for a party.

- There were 6 balloons in each package.
- Half of the balloons in each package were red.

What equation could be used to find the total number of red balloons Cassandra used?

A.  $11 \times 6 - 3 = 63$

B.  $11 \times 6 \div 2 = 33$

C.  $11 - 6 + 2 = 7$

D.  $11 \times 6 \div 3 = 22$

5. Stacy used 21 feet of ribbon to make bows. She used 3 feet of ribbon for each bow.

Which equation can be used to find the number of bows Stacy made with this ribbon?

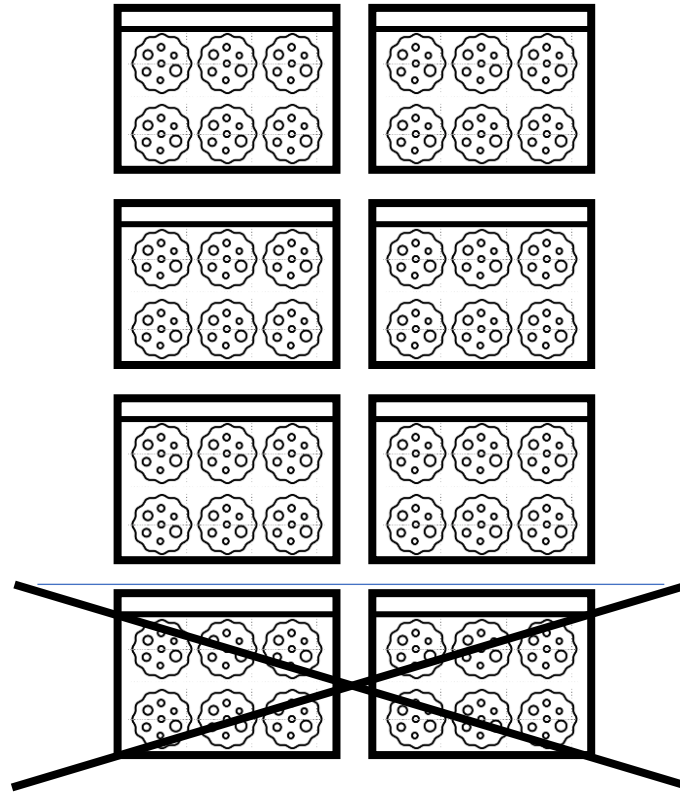
A.  $21 \times 3 = 63$

B.  $21 \div 3 = 7$

C.  $21 + 3 = 24$

D.  $21 - 3 = 18$

6. Noah had 48 cookies. The model represents what he did with the cookies.



- A. He put  $(48 \div 8)$  cookies into each of 8 bags and ate  $(2 \times 6)$  of the cookies.
- B. He put  $(48 \div 6)$  cookies into each of 8 bags and ate  $(2 \times 8)$  of the cookies.
- C. He put  $(48 - 6)$  cookies into each of 8 bags and ate  $(2 \times 6)$  of the cookies.
- D. He put  $(48 \times 6)$  cookies into each of 8 bags and ate  $(2 + 6)$  of the cookies.



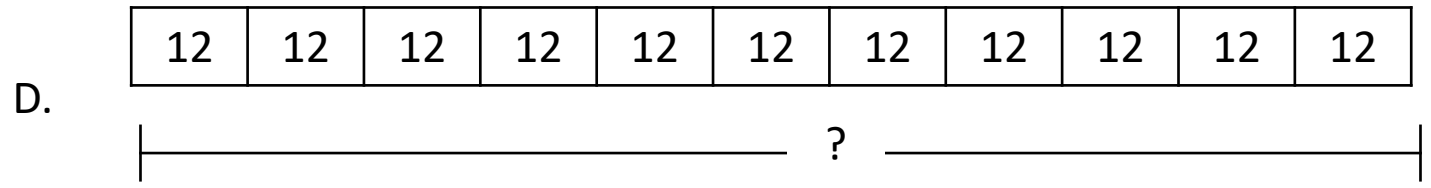
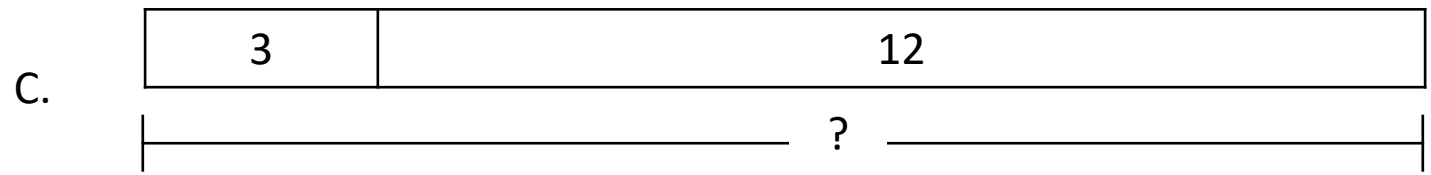
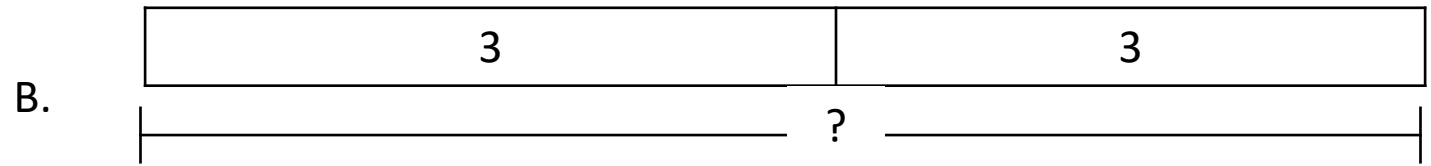
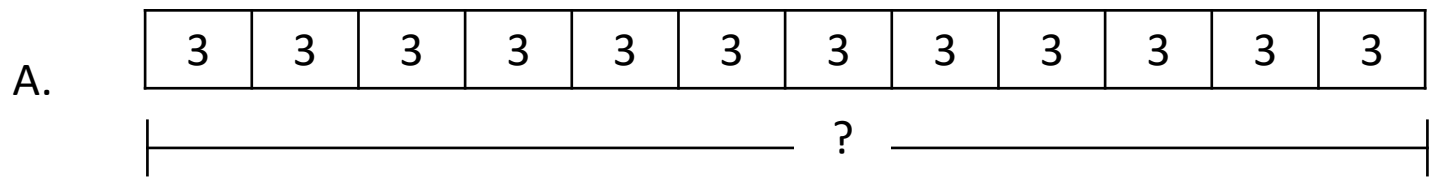
**Unit: 3<sup>rd</sup> – Deeper into Multiplication & Division****Lesson: 3.5.B - Represent Multiplication and Division Multi-Step Word Problems****Problem Set: 2**

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1 D	2 D	3 C	4 B	5 B	6 A
7 A	8 C	9 C	10 D	11 B	12 B
13 C	14 B	15 A	16 A	17 A	18 D
19 D	20 C	21 B	22 C	23 A	24 B
25 A	26 A	27 B	28 B	29 C	30 B



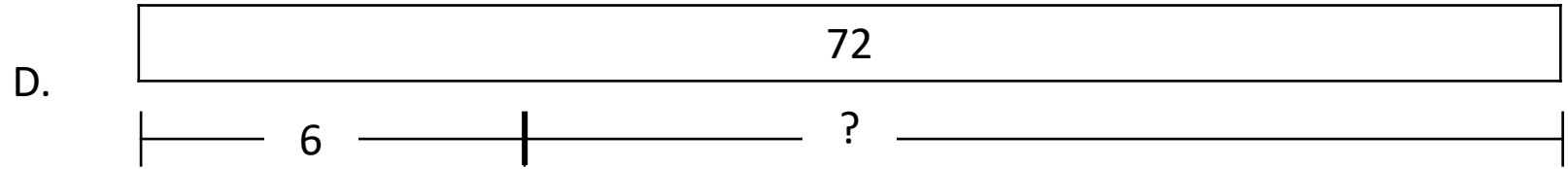
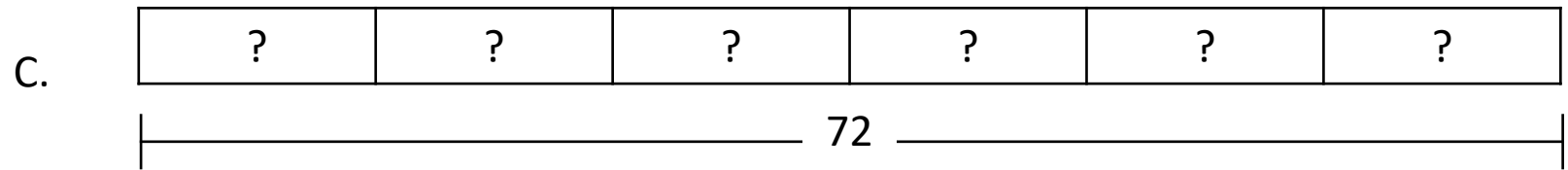
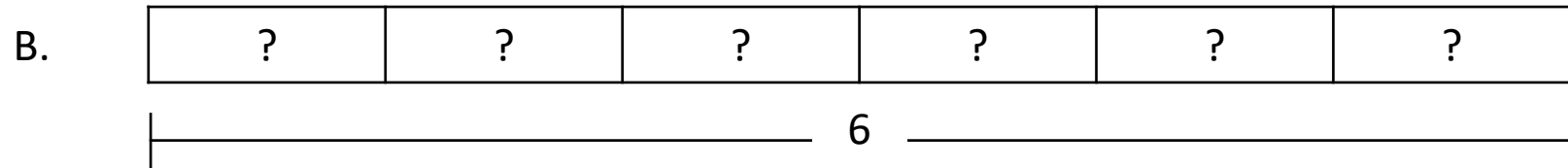
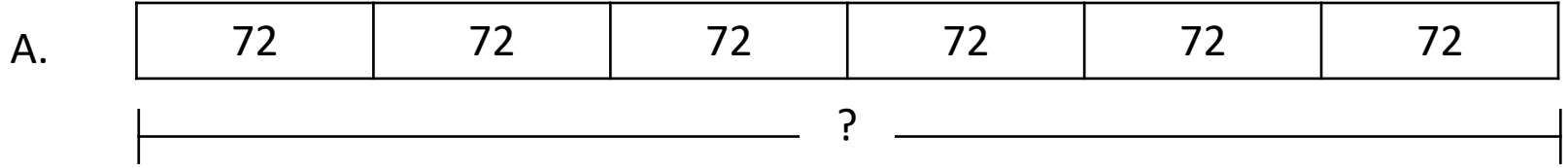
7. Creepy Cristabelle has 12 dead trees in her creepy front yard. There are 3 buzzards in each tree. Which strip diagram can be used to find the number of buzzards in Cristabelle's yard?



8. Carlotta the Cavity Queen eats way too much candy! She bought 10 bags of cinnamon candy with 10 pieces of candy in each bag. Then she put an equal amount of candy into each of the 4 pockets in her winter coat. Which equation shows how many pieces of candy went into each pocket?

- A.  $10 + 10 - 4 = 16$
- B.  $10 + 10 + 4 = 24$
- C.  $10 \times 10 \div 4 = 25$
- D.  $10 \times 10 \times 4 = 400$

9. Stinky Stan made 6 pints of super stinky garlic tea. He used a total of 72 heads of garlic to make the tea. He used the same number of heads of garlic for each pint of tea. Which diagram shows how to find the number of heads of garlic that Stan used to make each pint of his tea?



10. Sylvia the Sardine Chef normally makes 10 sardine pizzas per night with 8 sardines on each pizza. Tonight the sardine lover's club is meeting and they plan to eat all the sardine pizzas. They asked Sylvia to make her pizzas with 5 times as many sardines as normal. Which number sentence can be used to find the number of sardines Sylvia will use on her pizzas tonight?

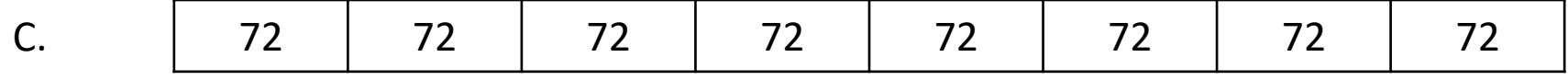
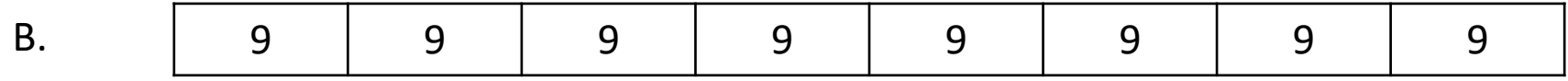
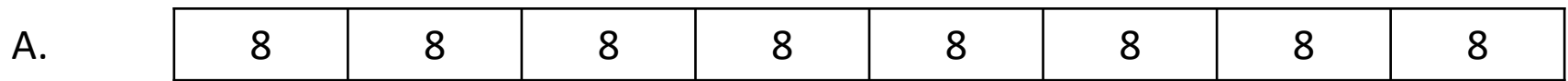
A.  $10 + 8 + 5 = \square$

B.  $10 \times 8 \div 5 = \square$

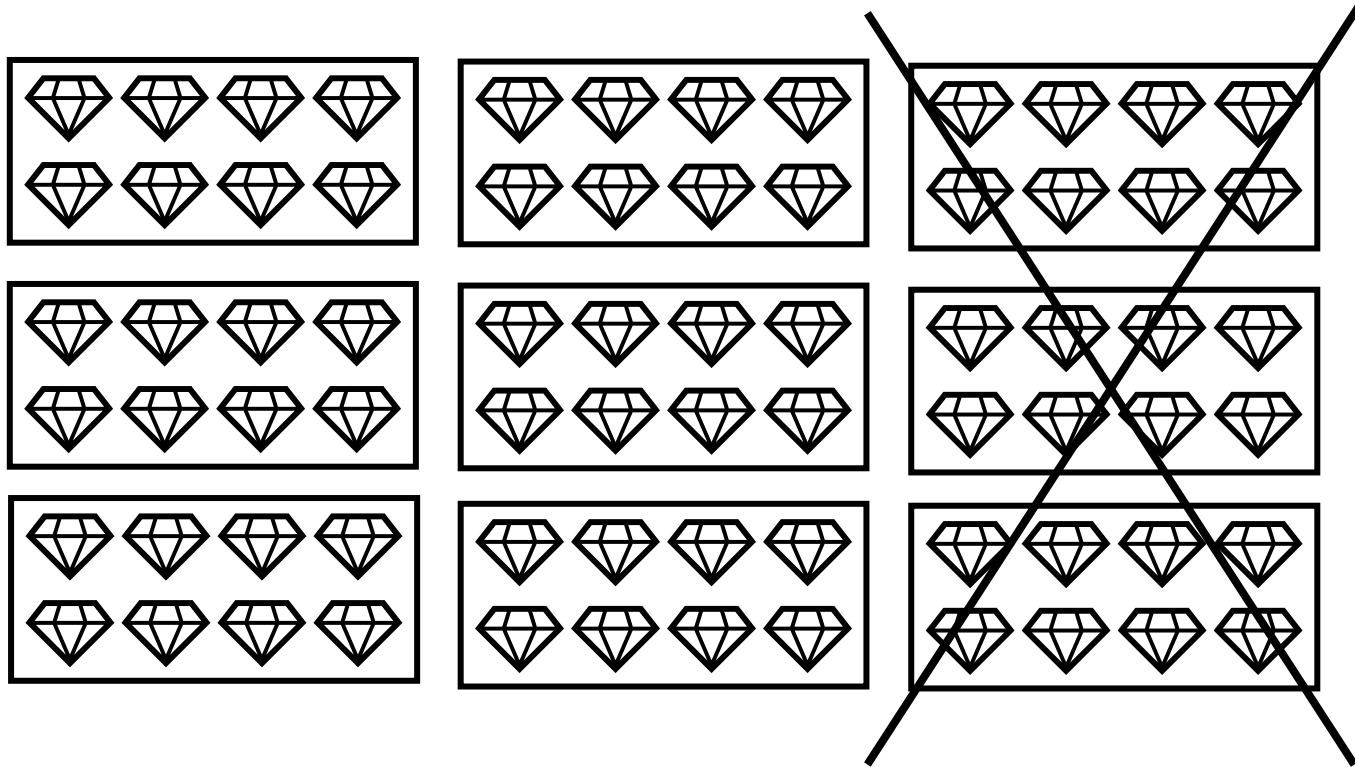
C.  $10 + 8 \times 6 = \square$

D.  $10 \times 8 \times 5 = \square$

11. Red-Handed Sally, the pirate queen, has 72 rubies that she used to pay the 8 pirates that help her sail her ship. She gave the same number of rubies to each pirate. Which strip diagram shows how to find the number of rubies that Red-Handed Sally gave to each of her pirates?



12. The Queen of Hasmuchia had 72 large diamonds. The model represents what happened to the diamonds.



Which sentence best describes what might have happened to the diamonds?

- A. She put  $(72 \div 8)$  diamonds into each of 8 jewelry boxes and  $(3 \times 9)$  of the diamonds were stolen!
- B. She put  $(72 \div 9)$  diamonds into each of 9 jewelry boxes and  $(3 \times 8)$  of the diamonds were stolen!
- C. She put  $(72 - 9)$  diamonds into each of 9 jewelry boxes and  $(3 \times 8)$  of the diamonds were stolen!
- D. She put  $(72 + 8)$  diamonds into each of 8 jewelry boxes and  $(3 + 9)$  of the diamonds were stolen!



**Unit: 3<sup>rd</sup> – Deeper into Multiplication & Division****Lesson: 3.5.B - Represent Multiplication and Division Multi-Step Word Problems****Problem Set: 3**

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7 A	8 C	9 C	10 D	11 B	12 B
13 C	14 B	15 A	16 A	17 A	18 D
19 D	20 C	21 B	22 C	23 A	24 B
25 A	26 A	27 B	28 B	29 C	30 B



13. Muscular Marvin does 63 sit ups every morning before breakfast. He does 9 sit ups per minute.

Which equation can be used to find out how many minutes it takes for Marvin to do his morning sit ups?

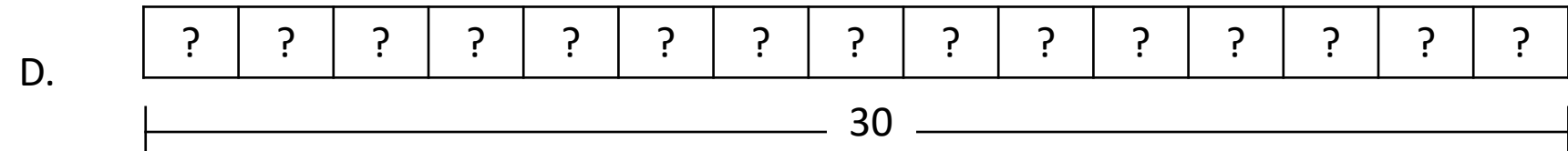
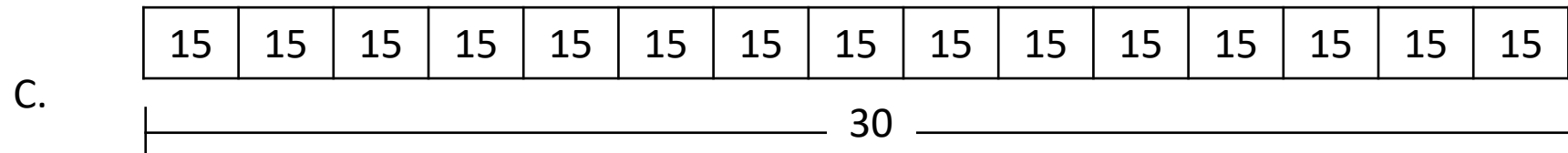
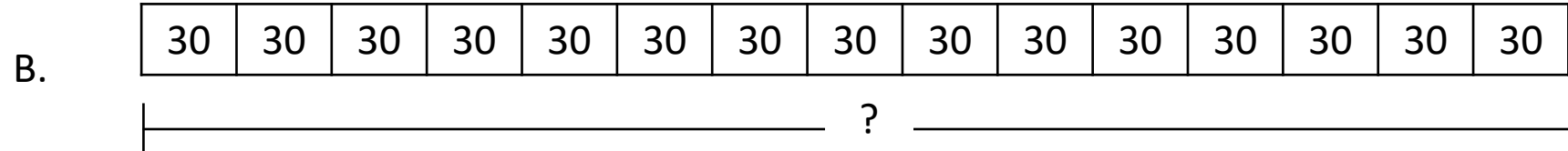
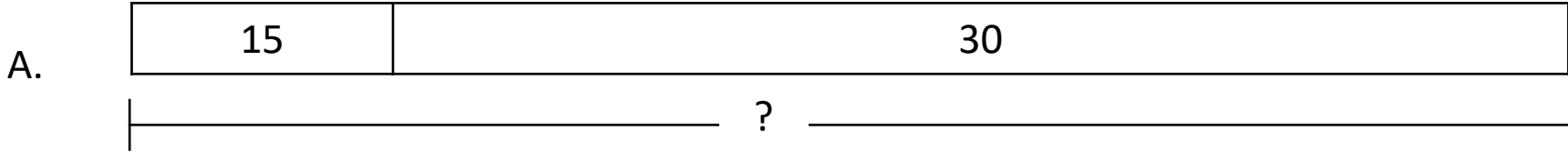
A.  $63 \times 9 = 567$

B.  $63 + 9 = 72$

C.  $63 \div 9 = 7$

D.  $63 - 9 = 54$

14. Carlotta the Cavity Queen eats way too much candy! She bought 15 bags of candy at the store yesterday. Each bag has 30 pieces of candy. Which strip diagram can be used to find out how many pieces of candy Carlotta bought yesterday?



15. The Queen of Hasmuchia wanted new collars for the 4 royal puppies. She asked the royal jeweller to melt down 5 gold bars with 8 ounces of gold in each bar. The royal jeweller used the same amount of gold for each puppy collar. Which equation shows one way to find out how many ounces of gold were in each collar?

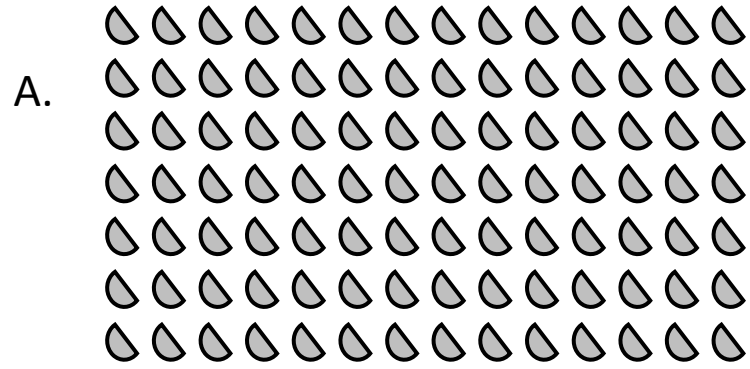
A.  $5 \times 8 \div 4 = 10$

B.  $5 + 8 + 4 = 17$

C.  $5 \times 8 \times 4 = 160$

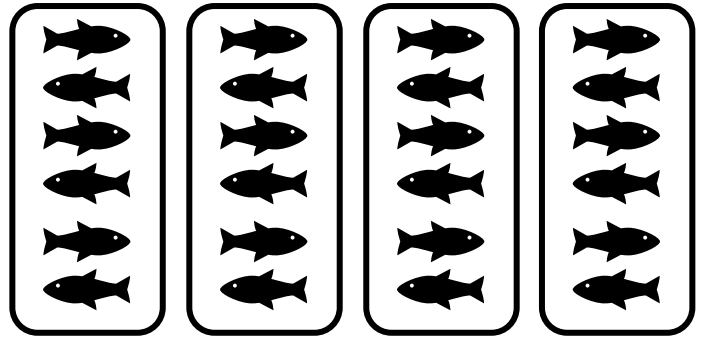
D.  $5 + 8 - 4 = 9$

16. Larry has 14 oranges. He will cut each of these oranges into 7 slices. Which array can be used to find the number of orange slices he will have?

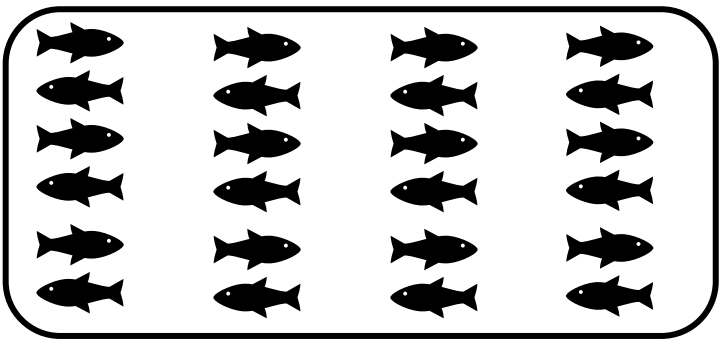


17. Stinky Stan bought 24 stinky fish to really smell up his refrigerator. The fish came in packages of 6 fish each. Which model best represents the number of packages of fish Stan bought?

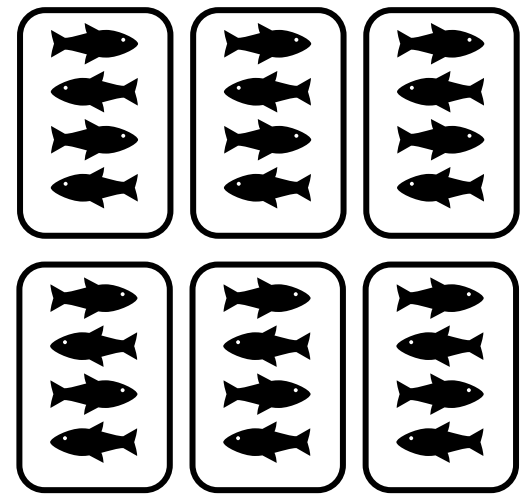
A.



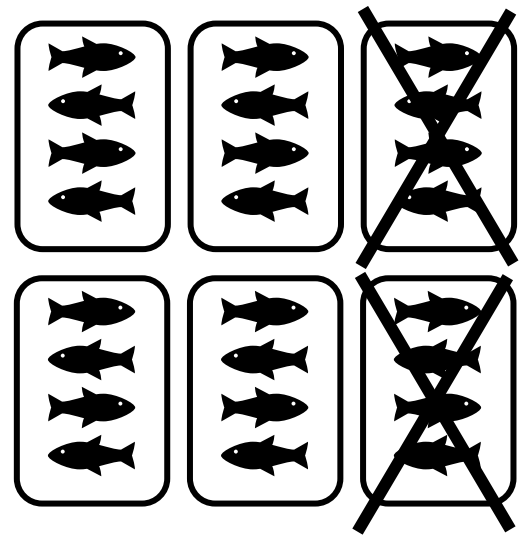
B.



C.



D.



18. One-Eyed Jack, the pirate, stole 6 bags of coins from the Queen's ship.

- Each bag had 9 coins.
- One third of the coins in each bag were gold.

What equation could be used to find the total number of gold coins that One-Eyed Jack stole from the Queen?

A.  $6 \times 9 - 3 = 51$

B.  $6 \times 9 + 3 = 57$

C.  $6 + 9 \div 3 = 9$

D.  $6 \times 9 \div 3 = 18$



**Unit: 3<sup>rd</sup> – Deeper into Multiplication & Division****Lesson: 3.5.B - Represent Multiplication and Division Multi-Step Word Problems****Problem Set: 4**

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7 A	8 C	9 C	10 D	11 B	12 B
13 C	14 B	15 A	16 A	17 A	18 D
19 D	20 C	21 B	22 C	23 A	24 B
25 A	26 A	27 B	28 B	29 C	30 B



19. Ridiculous Rachel is knitting warm hats for the family of possums that live under her house. She has 36 feet of yarn. Each possum hat requires 4 feet of yarn.

Which equation can be used to find the number of possum hats Rachel can make with the yarn she has?

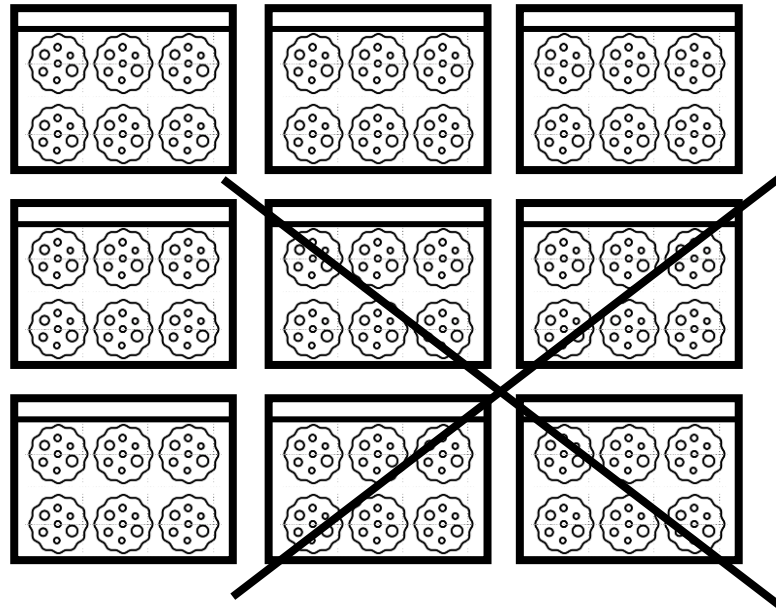
A.  $36 - 4 = 32$

B.  $36 \times 4 = 144$

C.  $36 + 4 = 40$

D.  $36 \div 4 = 9$

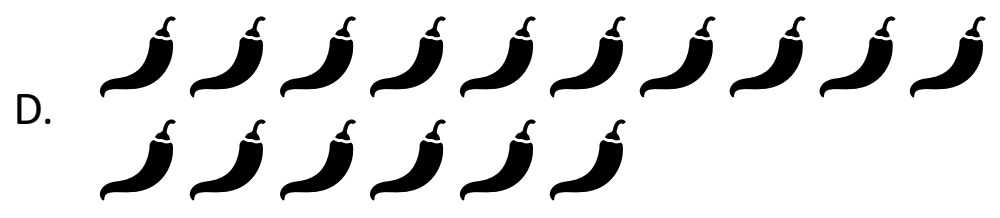
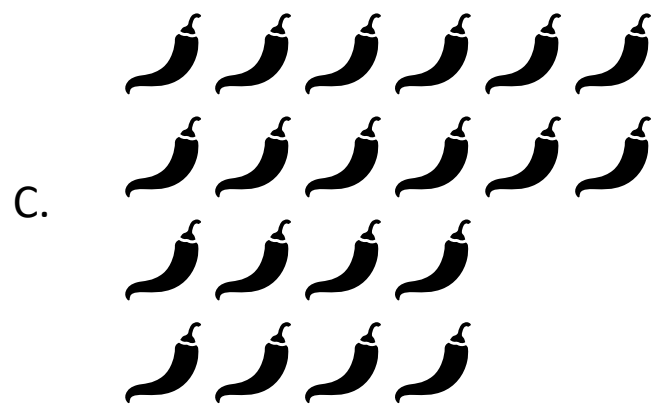
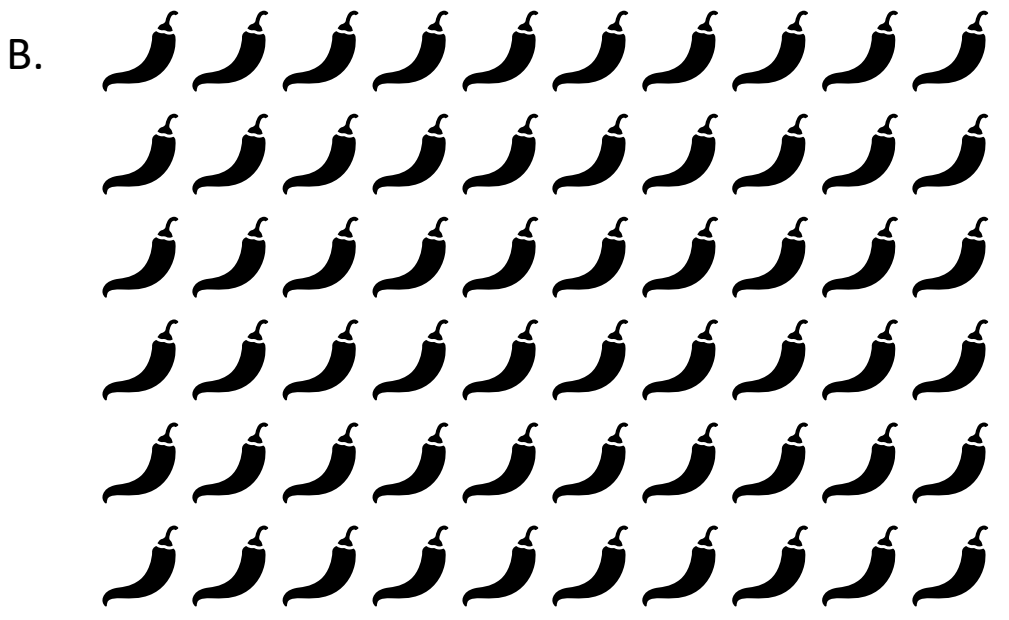
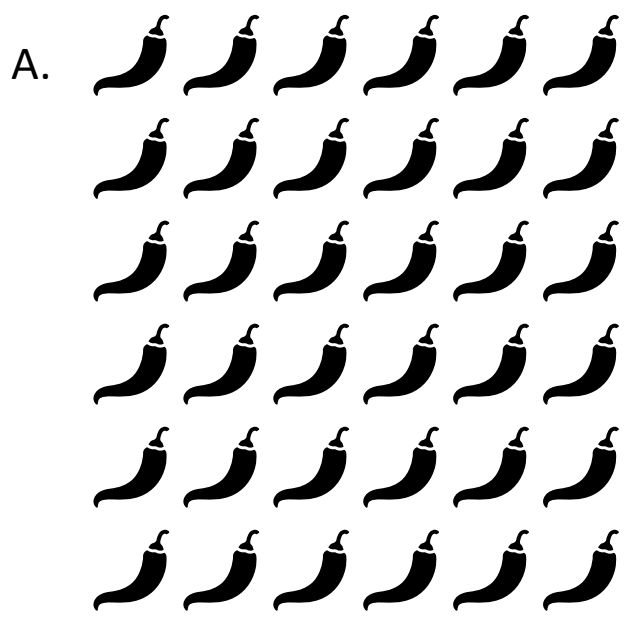
20. Polly the Panda Trainer had 54 panda treats. The model represents what she did with the treats.



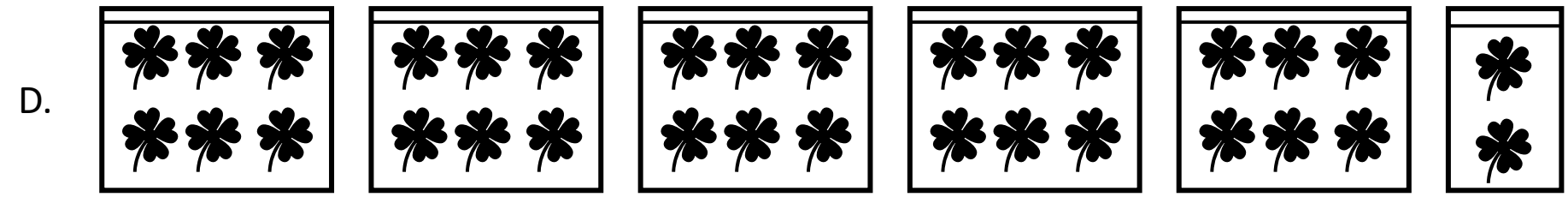
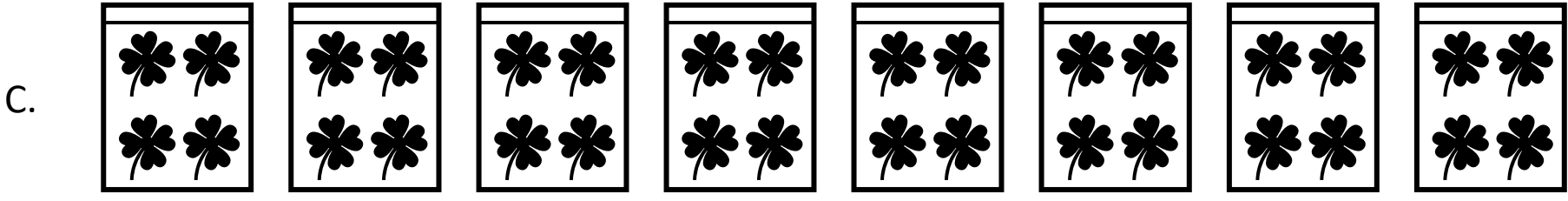
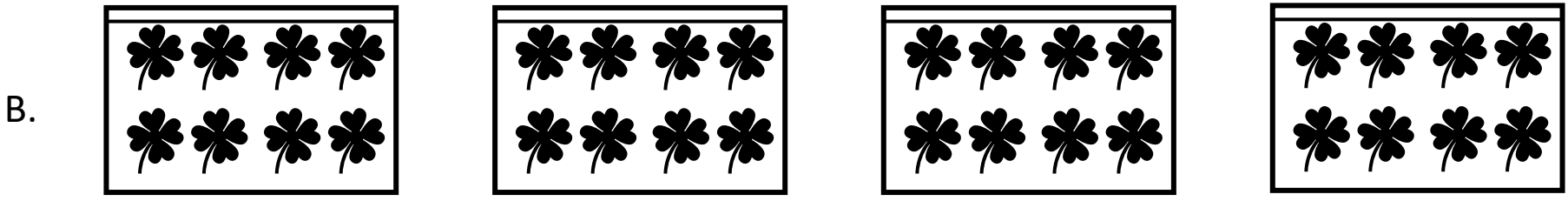
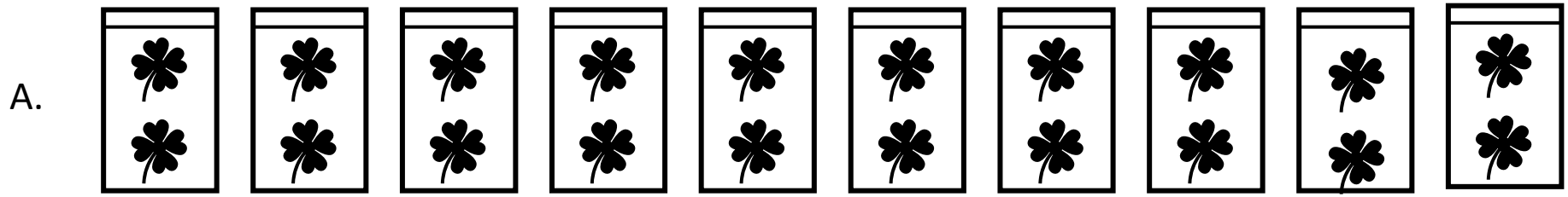
Which sentence best describes what Polly did with the Panda treats?

- A. She put  $(54 \times 9)$  treats into each of 9 bags and fed  $(4 \div 6)$  of the treats to the pandas.
- B. She put  $(54 - 9)$  treats into each of 9 bags and fed  $(4 + 6)$  of the treats to the pandas.
- C. She put  $(54 \div 9)$  treats into each of 9 bags and fed  $(4 \times 6)$  of the treats to the pandas.
- D. She put  $(54 + 9)$  treats into each of 9 bags and fed  $(6 - 2)$  of the treats to the pandas.

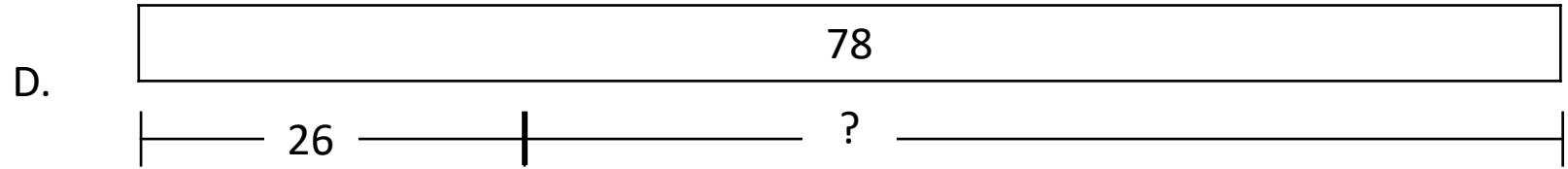
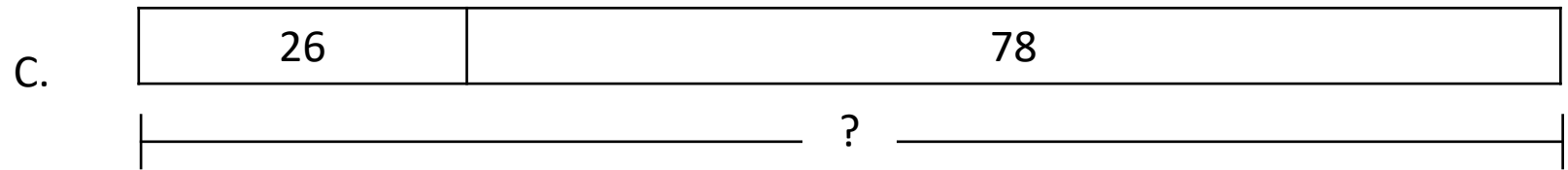
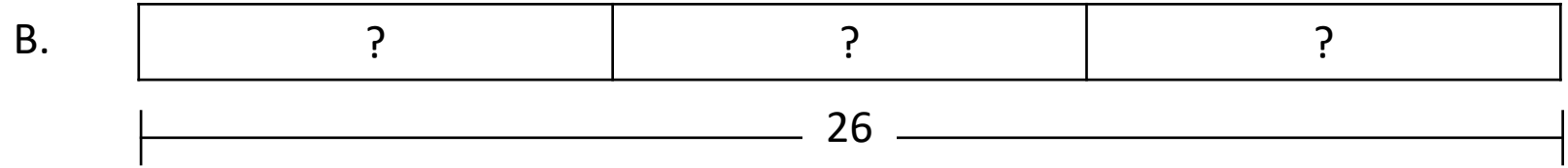
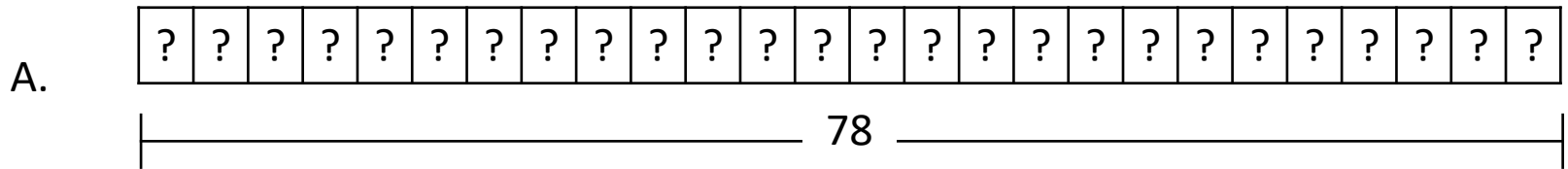
21. Annoying Albert likes to trick people with super hot pepper gum. He bought 6 packs of hot pepper gum with 10 sticks of gum per pack. Which model shows how many total sticks of hot gum Albert bought? (Each pepper represents one stick of gum.)



22. Wanda the Witch bought 32 four-leaf clovers to sell at the Witch Supply Store to make good luck charms. The clovers come in small packets of 4. Which model best represents the number of packets of clovers that Wanda bought?



23. Edward made 26 hamburgers. He used a total of 78 pickle slices on the hamburgers. He put the same number of pickle slices on each hamburger. Which diagram shows how to find the number of pickle slices Edward put on each hamburger?



24. To make posters, 6 students each collected 8 pictures of animals. The students put 4 animal pictures on each poster they made. Which equation shows one way to find the number of posters the students made?

A.  $6 + 8 + 4 = 18$

B.  $6 \times 8 \div 4 = 12$

C.  $6 \times 8 \times 4 = 192$

D.  $6 + 8 - 4 = 10$



**Unit: 3<sup>rd</sup> – Deeper into Multiplication & Division****Lesson: 3.5.B - Represent Multiplication and Division Multi-Step Word Problems****Problem Set: 5**

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19 D	20 C	21 B	22 C	23 A	24 B
25 A	26 A	27 B	28 B	29 C	30 B



25. Disgusting Donald is making some nasty cookies for the disgusting diner's club. He made 5 trays of cookies with 12 cookies each. Most of the cookies were regular sugar and toenail cookies, but one-fourth of the cookies on each tray also had chocolate chips.

What equation could be used to find the total number of chocolate chip sugar and toenail cookies that Donald made?

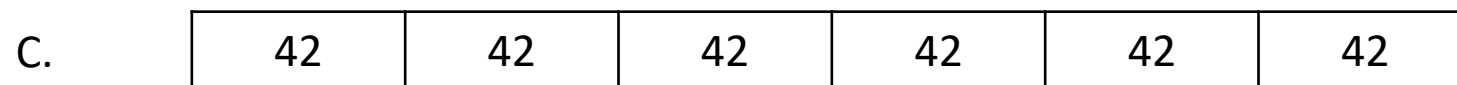
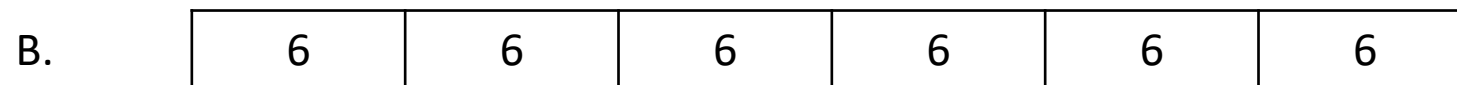
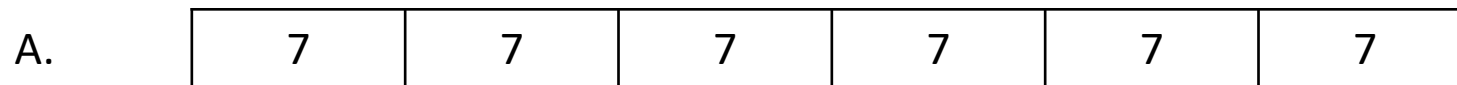
A.  $5 \times 12 \div 4 = 15$

B.  $5 \times 12 - 4 = 56$

C.  $12 - 5 + 4 = 11$

D.  $5 \times 12 \times 4 = 240$

26. Gina has 42 mushrooms to put into 6 salads. She wants to put the same number of mushrooms in each salad. Which strip diagram shows how to find the number of mushrooms that Gina should put in each salad.



27. A classroom currently contains 6 rows of chairs with 5 chairs per row. On parent's night the classroom has twice as many chairs. Which number sentence can be used to find the number of chairs in the classroom on parent's night?

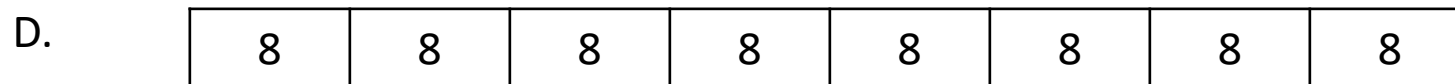
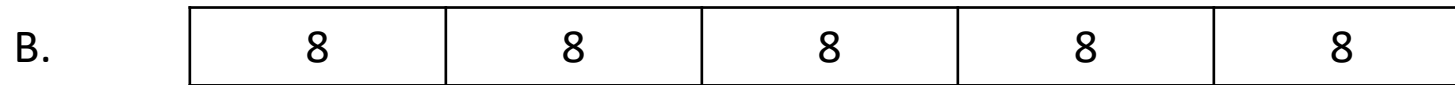
A.  $6 + 5 + 2 = \square$

B.  $6 \times 5 \times 2 = \square$

C.  $6 \times 5 \div 2 = \square$

D.  $6 + 5 \times 2 = \square$

28. Ophelia the Octopus Keeper has 40 tentacle mittens that she gave to the 5 octopi she keeps. She gave the same number of mittens to each octopus. Which strip diagram shows how to find the number of mittens that Ophelia gave to each octopus?



29. Leonard the Lizard Rancher traps flies to feed to his lizards. He has 5 fly traps and usually each trap catches 3 flies. Last night he left out a smelly piece of old meat to attract more flies. It worked! Each of his traps caught 4 times as many flies as usual! Which number sentence can be used to find the number of flies that Leonard trapped thanks to the smelly meat?

A.  $5 + 3 + 4 = \square$

B.  $5 \times 3 \div 4 = \square$

C.  $5 \times 3 \times 4 = \square$

D.  $5 + 3 \times 4 = \square$

30. Nicolas the Narwhal expert is feeding a herd of 12 narwhals. He used a total of 4,800 pounds of Narwhal Chow. He gave each narwhal the same amount of food. Which diagram shows how to find the number of pounds of food Nicolas gave to each Narwhal?

