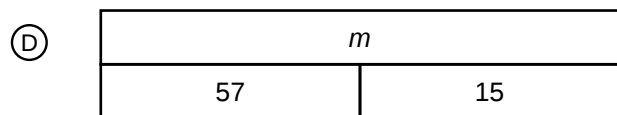
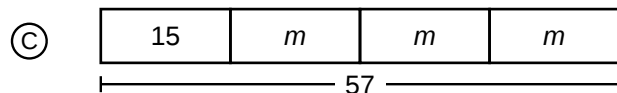
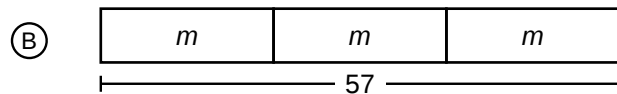
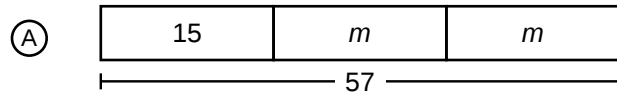


Question 1

Mrs. Chen buys 57 beads. She uses 15 of the beads to make a necklace. She uses the rest of the beads to make 3 bracelets with the same number of beads, m , on each bracelet.

Which strip diagram represents the number of beads, m , on each bracelet?



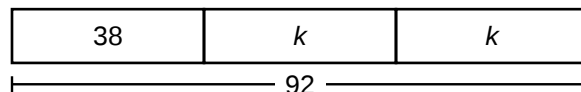
Question 2

Diego has 4 boxes of markers. Each box has 24 markers. He gives 17 markers to his sister. Which equation can be used to find m , the number of markers Diego has left?

- (A) $m = (4 \times 24) - 17$
- (B) $m = 4 \times (24 - 17)$
- (C) $m = (4 + 24) - 17$
- (D) $m = (4 \times 24) + 17$

Question 3

The strip diagram shows the total number of stickers in an album.



Which equation can be used to find the value of k ?

- (A) $k = 92 - 38$
- (B) $k = 92 \div 2$
- (C) $38 + k = 92$
- (D) $k = (92 - 38) \div 2$

Question 4

A library places 18 books on each of 5 shelves. There are also 7 books on a cart. The total number of books is b .

Which representations can be used to find the total number of books, b ?

Select **TWO** correct answers.

☐

b					
18	18	18	18	18	7

☐ $5 \times 18 = 90$ $90 + 7 = b$

☐

18	7	b
----	---	-----

$\underbrace{\hspace{10em}}_5$

☐ $5 \times (18 + 7) = b$

☐ $b = 18 + 5 + 7$

Question 5

A gym had 248 chairs. Workers took away 156 of the chairs for an event. Later, workers brought in some more chairs. Now the gym has 175 chairs. Which set of equations can be used to find r , the number of chairs the workers brought in?

(A) $248 + 156 = 404$ $404 - 175 = r$

(B) $248 - 156 = 92$ $175 - 92 = r$

(C) $248 - 156 = 92$ $175 + 92 = r$

(D) $248 - 175 = 73$ $156 - 73 = r$

Question 6

The strip diagram represents t , the total number of granola bars in an order.

t			
26	26	26	19

Which equation does the strip diagram represent?

- Ⓐ $t = 26 + 19$
- Ⓑ $t = 4 \times 26 + 19$
- Ⓒ $t = (3 \times 26) - 19$
- Ⓓ $t = (3 \times 26) + 19$

Question 7

Which strip diagram represents the equation $84 = 4 \times p$?

Ⓐ

4	p
---	-----

 84

Ⓑ

p	p	p	p
-----	-----	-----	-----

 84

Ⓒ

84	84	84	84
----	----	----	----

 p

Ⓓ

84	
p	4

Question 8

Jonah collected 173 stamps. He collected 96 stamps from the United States, 41 stamps from Mexico, and the rest from Canada. Which equation can be used to find j , the number of stamps Jonah collected from Canada?

- (A) $j = 173 - 96 - 41$
- (B) $j = 173 + 96 + 41$
- (C) $j = 173 - 96 + 41$
- (D) $j = 96 + 41$

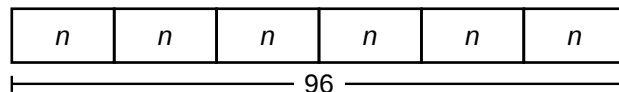
Question 9

There are 3 teams with 22 players each at a soccer camp. Then 14 more players join the camp. All the players are divided into 4 equal groups for a drill. Which equation can be used to find g , the number of players in each group?

- (A) $g = (3 \times 22) + 14 \times 4$
- (B) $g = (3 \times 22 - 14) \div 4$
- (C) $g = (3 \times 22 + 14) \div 4$
- (D) $g = (3 + 22 + 14) \div 4$

Question 10

The strip diagram shows 96 crayons divided into equal groups.



Which equation does the strip diagram represent?

- (A) $n = 96 \times 6$
- (B) $96 = n - 6$
- (C) $n = 96 + 6$
- (D) $n = 96 \div 6$

Answer Key

1. C The total 57 is split into the 15 used for the necklace plus 3 equal parts of m.
2. A Total markers 4×24 , then subtract the 17 given away.
3. D Remove the known part ($92 - 38 = 54$), then divide by the 2 equal parts: $k = 27$.
4. Options 1 and 2 The diagram with b spanning five 18s and a 7, and the equation pair $5 \times 18 = 90$, $90 + 7 = b$. Option 4 adds the cart books to every shelf.
5. B $248 - 156 = 92$ chairs remained; $175 - 92 = r$ chairs brought in ($r = 83$).
6. D t spans three 26s and one 19: $t = (3 \times 26) + 19$.
7. B $84 = 4 \times p$ means 4 equal parts of p make 84.
8. A Subtract both known groups from the total: $j = 173 - 96 - 41$.
9. C Total players $3 \times 22 + 14 = 80$, then divide into 4 equal groups.
10. D Six equal parts of n make 96, so $n = 96 \div 6$.

Correct answers are balanced across positions A–D among the multiple-choice items.