

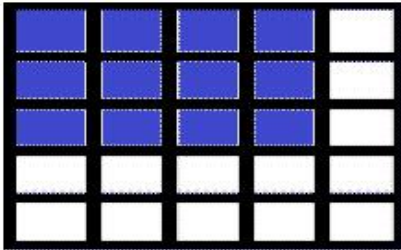
2nd Grade Operations and Algebraic Thinking- Work with equal groups of objects to gain foundations for multiplication, Standard 4, Pre Test 1

Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1.



Which equation below describes the colored portion of the array?

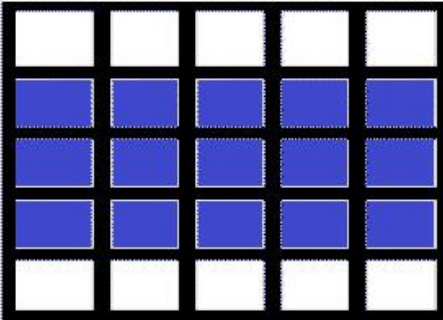
a. $5 + 5 + 5$

c. $3 + 3 + 3$

b. $4 + 1 + 4 + 1$

d. $4 + 4 + 4$

2.



Which equation below describes the colored portion of the array?

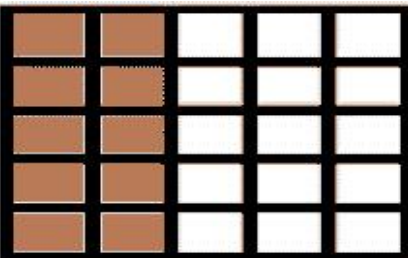
a. $5 + 5 + 3$

c. $3 + 3 + 3 + 3 + 3$

b. $5 + 5 + 5$

d. $4 + 4 + 4$

3.



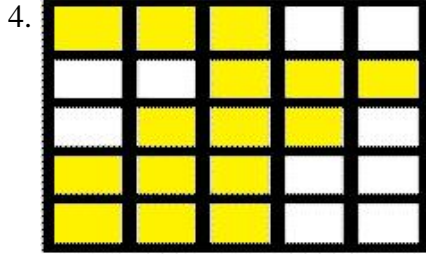
Which equation below describes the colored portion of the array?

a. $2 + 2 + 2 + 2 + 2$

c. $3 + 3 + 3 + 3 + 3$

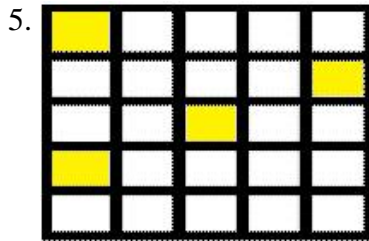
b. $5 + 5 + 5 + 5 + 5$

d. $1 + 1$



Which equation below describes the colored portion of the array?

- a. $2 + 2 + 2 + 2 + 2$
- b. $5 + 5 + 5 + 5 + 5$
- c. $3 + 3 + 3 + 3 + 3$
- d. $1 + 1$



Which equation below describes the colored portion of the array?

- a. $2 + 2 + 2 + 2 + 2$
- b. $4 + 4 + 4 + 4$
- c. $3 + 3 + 3 + 3 + 3$
- d. $1 + 1 + 1 + 1$

6. Which array below describes this equation: $3 + 3 + 3$?

- a.
- b.
- c.
- d.

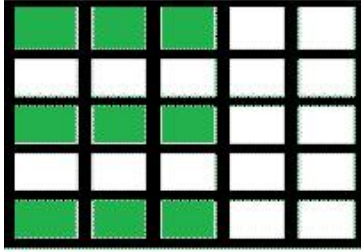
7. Which array below describes this equation: $2 + 2 + 2$?

- a.
- b.
- c.
- d.

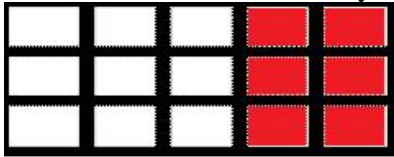
Completion

Complete each statement.

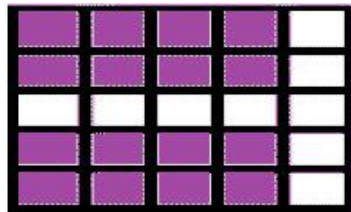
8. Write an equation that shows the sum of the colored squares in the array below. Put a space between each number and symbol. **Don't forget the = sign and the answer.**



9. Write an equation that shows the sum of the colored squares in the array below. Put a space between each number and symbol. **Don't forget the = sign and the answer.**



10. Write an equation that shows the sum of the colored squares in the array below. Put a space between each number and symbol. **Don't forget the = sign and the answer.**



Answer 1: D

Answer 2: B

Answer 3: A

Answer 4: C

Answer 5: D

Answer 6: B

Answer 7: C

Answer 8: $3 + 3 + 3 = 9$

Answer 9: $2 + 2 + 2 = 6$

Answer 10: $4 + 4 + 4 + 4 = 16$