

Name \_\_\_\_\_

**Choose the correct answer.**

1. Jackson was making a poster for his room. He arranged 50 trading cards in the shape of a rectangle on the poster. How many rows of cards were on his poster?  
**A** 3  
**B** 5  
**C** 6  
**D** 9
  
2. Charles was skip counting at the Math Club meeting. He started to count by 8s. He said 8, 16, 24, 32, 40, and 48. What number will he say next?  
**A** 54  
**B** 56  
**C** 60  
**D** 64
  
3. Donna was helping her friend Dan with his homework. Dan asked Donna if the number 11 is a prime number or a composite number. How should Donna answer Dan's question?  
**A** 11 is prime.  
**B** 11 is composite.  
**C** 11 is neither prime nor composite.  
**D** 11 is both prime and composite.
  
4. Elaine uses 19 connecting cubes to make a model of a house. The house model is in the shape of a rectangle and is one cube high. How many different ways could Elaine make the model of the house?  
**A** 1  
**B** 2  
**C** 4  
**D** 19
  
5. In a math game, Lee reads four statements about the number 39. She has to pick the true statement to win the game. Which statement should Lee choose?  
**A** 39 is divisible by 2.  
**B** 39 is divisible by 3.  
**C** 39 is divisible by 5.  
**D** 39 is a prime number.



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6. Jerry spent \$42 to buy some shirts. Each of the shirts cost the same whole-dollar amount. How many shirts could he have bought?

**A** 4  
**B** 5  
**C** 6  
**D** 8

7. Mr. Jacques wrote a bonus problem on the board. If Gina correctly answers, she gets extra time to read. The problem is to write a statement that correctly relates the numbers 9 and 18. Which should Gina write?

**A** 18 is a common multiple of 9 and 18.  
**B** 27 is a common multiple of 9 and 18.  
**C** 9 is a multiple of 18.  
**D** 18 is a factor of 9.

8. Brady's teacher wrote a row of numbers with a pattern.

21, 29, 26, 34, 31, 39, 36, . . .

What is the rule for the pattern?

**A** subtract 8, add 3  
**B** add 5, subtract 3  
**C** add 8, subtract 3  
**D** subtract 3, add 8

9. James has a card collection with 64 basketball cards, 32 football cards, and 24 baseball cards. He wants to arrange the cards in equal piles, with only one type of card in each pile. How many can he put in each pile?

**A** 1 or 8  
**B** 1, 2, 4, or 8  
**C** 1, 2, 4, 8, 12, or 16  
**D** 1, 2, 3, 4, 6, 8, 16, or 32

**GO ON** 

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10. Serena has several packages of raisins. Each package contains 3 boxes of raisins. Which could be the number of boxes of raisins Serena has?

- A 18
- B 23
- C 28
- D 32

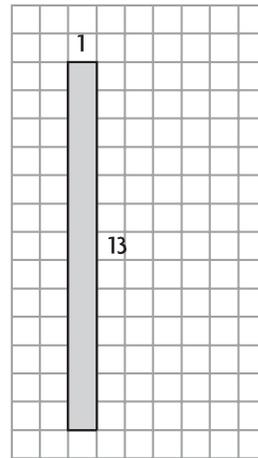
11. Leigh will use 16 connecting cubes to make a model of a playground. The model will be in the shape of a rectangle and will have a height of one cube. In how many different ways can Leigh make the model of the playground?

- A 2
- B 3
- C 4
- D 16

12. Jill wrote the number 40. If her rule is *add 7*, what is the fourth number in Jill's pattern?

- A 12
- B 19
- C 61
- D 68

13. Eric had 13 tiles to arrange in a rectangular design for the top of a box. He drew a model of the rectangle he could make with the 13 tiles.



What can Eric conclude about the number 13 from his model?

- A 13 is a prime number.
- B 13 is a composite number.
- C 13 is neither prime nor composite.
- D 13 is both prime and composite.

GO ON

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**Write the correct answer.**

**14.** Ms. Keller made 4 dozen cookies. She needs to put them into equal groups so that the number of groups is greater than 5 and less than 13. What are all the possible equal-size groups she can make with all the cookies?

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**15.** Juanita wants to give bags of stickers to her friends. She wants to give the same number of stickers to each friend. She's not sure if she needs 4 bags or 6 bags of stickers. How many stickers could she buy so there are no stickers left over?

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**16.** Violet and Victor were playing a game. Violet was counting by 8s. Victor was counting by 5s. They paced the counting so that they would say the first common number together. What is the first number that they said together?

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**17.** Kisha helped her teacher put away 36 books in boxes. She had to put the same number of books in each box to make the boxes easy to carry. How many books could be in each box?

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**18.** Kristin has 36 purple beads, 12 clear beads, and 24 yellow beads. She wants to put an equal number of beads on string to make necklaces, with only one color of bead on each string. How many beads can Kristin put on each string?

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**19.** Kyle used chalk to write numbers on the chairs for his party. He marked the number 9 on the first seat. His rule was *add 6*. What numbers did he write on the first six chairs?

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**20.** Ramon tells his friend that he is learning about prime numbers in math class. His friend asks him to name all the prime numbers between 20 and 30. What numbers should Ramon name?

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**21.** Jen and 4 friends want to make friendship bracelets. Jen has 35 beads to share among them. They want all the bracelets to have the same number of beads. How many beads should each girl get?

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**22.** Marta uses 1 piece of paper and 1 piece of ribbon to make kites. The paper comes in packs of 3 and the ribbon comes in packs of 4. What is the least number of kites Marta can make without any supplies left over?

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**23.** Greg's homework assignment was to find all the common factors of 28 and 42. So Greg made a list of all the factors of 28 and 42. He used the list to find the factors the two numbers had in common. What are the common factors that Greg found?

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**24.** Emma is using connecting cubes to make a rectangular model with a height of one connecting cube. With her cubes, she can make the model in exactly 3 different ways. If Emma has more than 12 but fewer than 17 cubes, how many cubes does she have?

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**25.** David and Li made a secret code. They wrote some numbers of the code so they could remember the pattern.

12, 10, 15, 13, 18, 16, 21, 19

What should the next number be?

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