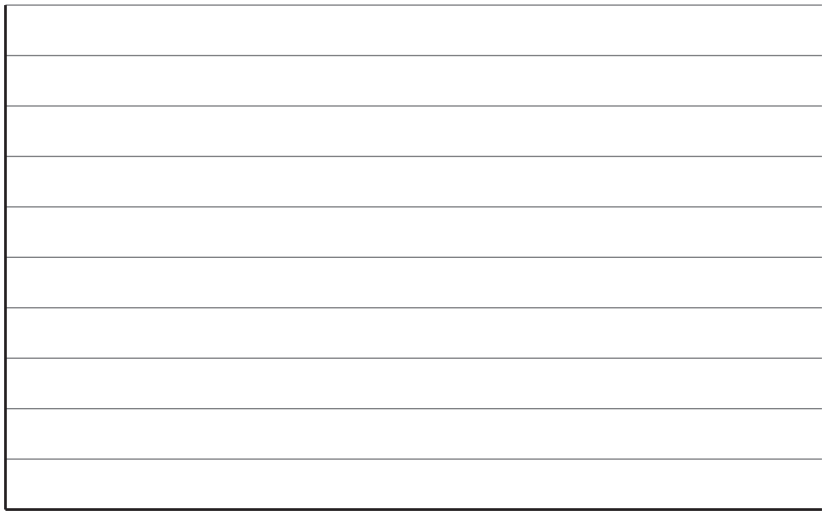
Introducing Multiplication: End-of-Unit Assessment

1. The table shows the favorite seasons of some students.

favorite season	number of students
fall	36
winter	23
spring	29
summer	48

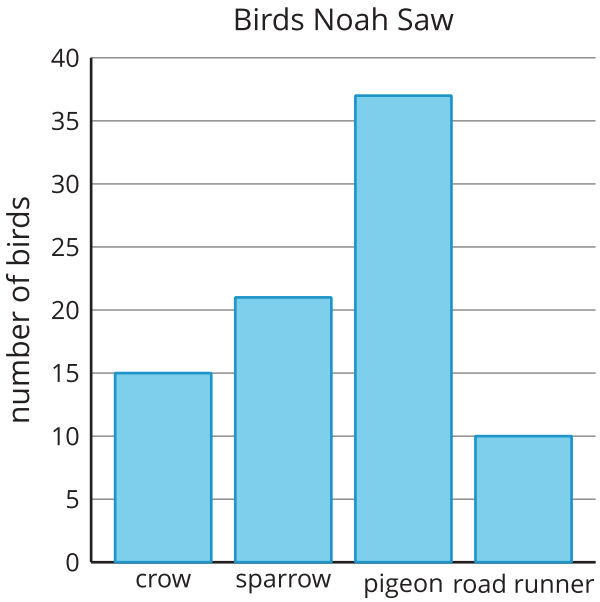
a. Create a scaled bar graph to represent the data. Use 2, 5, or 10 for your scale.



b. Which of the scales, 2, 5, or 10, will work to make a scaled bar graph on the grid?

c. Explain how you chose your scale.

2. The bar graph shows the kinds of birds that Noah saw one day.



Select **all** true statements.

A. Noah saw 3 crows.

B. Noah saw 37 pigeons.

C. Noah saw 22 more pigeons than crows.

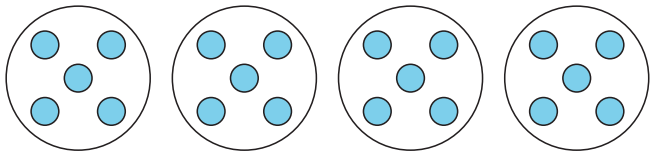
D. Noah saw fewer sparrows than road runners.

E. Noah saw fewer crows than pigeons.

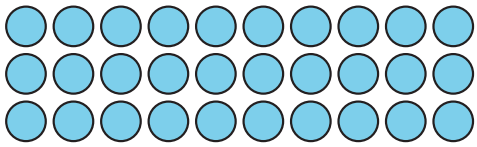
F. Noah saw 5 fewer crows than road runners.

3. Write a multiplication expression that could represent the number of dots in each drawing.

A



B



4. Elena has 5 bags. Each bag has 8 rubber bands.

   How many rubber bands does Elena have? Explain or show your reasoning.

5. There are 3 soccer teams on the field. Each team has 10 players. How many soccer players are on the field altogether?

   A. 7

   B. 13

   C. 20

   D. 30

6. Kiran has 18 cards. He arranges the cards in 3 rows. Each row has the same number of cards.

   a. Explain how the equation $3 \times ? = 18$ relates to Kiran's cards.

   b. How many cards are in each row? Explain how you know.

7. Find the number that makes each equation true.

   a. $4 \times 5 =$ _____

   b. $2 \times 6 =$ _____

   c. $3 \times 4 =$ _____

   d. $5 \times$ _____ $= 35$

   e. _____ $\times 10 = 40$