1. Alberto packed 8 apples in each of 4 boxes. How many apples did Alberto pack?

Draw circles to model the problem. Then solve.

_____

_____

2. For numbers 2a–2d, select True or False for each multiplication sentence.

2a. $3 \times 8 = 24$ ○ True   ○ False

2b. $5 \times 8 = 48$ ○ True   ○ False

2c. $7 \times 8 = 56$ ○ True   ○ False

2d. $9 \times 8 = 81$ ○ True   ○ False

3. Peggy is putting flowers in vases. She puts either 2 or 3 flowers in each vase. If Peggy has a total of 12 flowers, how many different ways can she place them all in the vases?

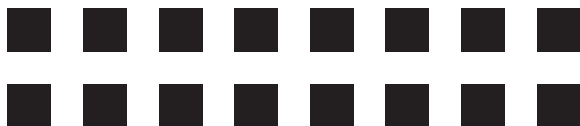Write multiplication sentences to show your work.

4. Dean plants 7 corn plants in each of 5 rows. How many corn plants does Dean plant?

_____ plants

GO ON

5. Circle groups to show 4 × (2 × 2).

■ ■ ■ ■ ■ ■ ■ ■

■ ■ ■ ■ ■ ■ ■ ■

6. Rebecca keeps all of her pairs of gloves in a drawer. Select the number of gloves that Rebecca could have in the drawer. Mark all that apply.

Ⓐ 5

Ⓑ 4

Ⓒ 6

Ⓓ 11

Ⓔ 10

7. Hal completed the table to describe the product of a mystery one-digit factor and each number.

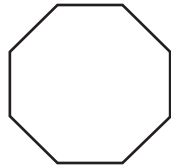| ×	1	2	3	4	5
?	odd	even	odd	even	odd

Part A

Give all of the possible numbers that could be Hal's mystery one-digit factor.

_____

Part B

Explain how you know that you have selected all of the correct possibilities.

_____

_____

GO ON

8. Yuri used toothpicks to make 6 separate octagons. An octagon has 8 sides. How many toothpicks did Yuri use?
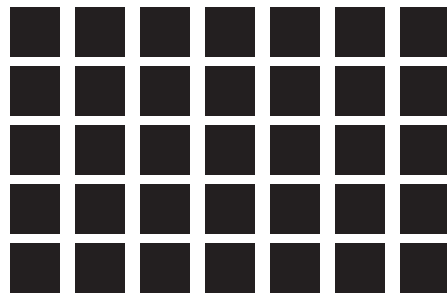
_____ toothpicks

9. Maria practiced soccer 5 days last week. She practiced 2 hours each day. How many hours did Maria practice soccer last week?

_____ hours

10. Break apart the array to show $5 \times 7 = (5 \times 2) + (5 \times 5)$.

**11.** Circle the symbol that makes the multiplication sentence true.

9×5 $\begin{array}{|c|} \hline > \\ < \\ = \\ \hline \end{array}$ $(9 \times 4) \times 1$

GO ON

12. Lori has 18 new stamps to add to her collection. She displays the stamps on pages of an album in groups of either 3, 6, or 9 stamps. How many different ways can she display the 18 new stamps?

_____ different ways

13. A shop owner sells 3-wheel baby strollers. She checks the air in the tires on 4 different strollers. How many tires does she check in all?

Use the array to explain how you know your answer is correct.

_____

_____
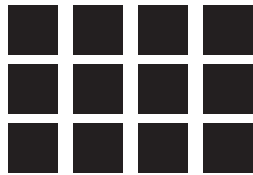
14. Max arranges all of his toy cars in 9 equal rows, with 9 cars in each row. How many toy cars does Max have?

_____ toy cars

15. Deanna, Amy, and Pam pick the same number of peaches at an orchard. They each set their peaches in 4 equal piles with 6 peaches in each pile.

Write a multiplication sentence that shows how many peaches they picked.

_____

GO ON

16. Kate is baking 5 apple pies for the bake sale. She uses 3 red apples and 2 green apples in each pie. How many apples does Kate use? Show your work.

_____

_____ apples

17. For numbers 17a–17d, select True or False for each equation.

17a. $2 \times 7 = 16$ ○ True   ○ False

17b. $4 \times 7 = 21$ ○ True   ○ False

17c. $6 \times 7 = 42$ ○ True   ○ False

17d. $7 \times 7 = 49$ ○ True   ○ False

18. Circle the number that makes the multiplication sentence true.

$$10 \times \boxed{\begin{matrix} 6 \\ 7 \\ 8 \end{matrix}} = 70$$

19. For numbers 19a–19d, select Yes or No to indicate whether the sum or product is equal to 9×4.

19a. $(5 \times 4) + (4 \times 4)$ ○ Yes   ○ No

19b. $5 + (4 \times 5)$ ○ Yes   ○ No

19c. $(3 \times 3) + (2 \times 2)$ ○ Yes   ○ No

19d. $4 \times (5 + 4)$ ○ Yes   ○ No

GO ON

20. A rollercoaster car can fit 6 people. How many people can fit in a rollercoaster that is 9 cars long?

_____ people

21. Write a multiplication sentence using the following numbers and symbols.

| 56 | 4 | 2 | 7 | ( ) | = | × |

_____

22. Debbie started a table showing a multiplication pattern.

Part A

Complete the table. Describe a pattern you see in the products.

×	1	2	3	4	5	6	7	8	9	10
6	6	12	18							

_____

Part B

If you multiplied 6 × 73, would the product be an even number or an odd number? Use the table to explain your reasoning.

_____

_____

_____

23. Use the number line to show the product of 3 × 8.

```
←|+++++++++|+++++++++|+++++++++|++→
  0  2  4  6  8  10 12 14 16 18 20 22 24 26
```

3 × 8 = _____

STOP