

A. Vocabulary

Match each term on the left side with its definition on the right side.

TERMS

___ 1. Multiplication

___ 2. Product

___ 3. Quotient

___ 4. Division

___ 5. Inverses

DEFINITIONS

a. The answer to a multiplication equation.

b. Two operations that "undo" each other.

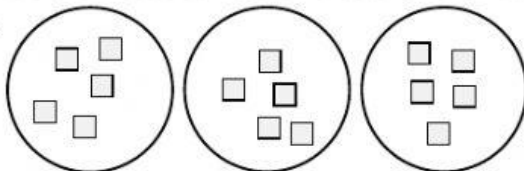
c. The process of splitting a whole number into smaller, equal groups.

d. When two numbers are divided, it results in this number.

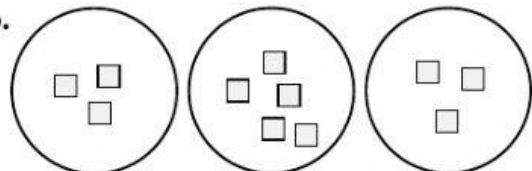
e. The repeated addition of equal groups.

6. Circle the illustration below that shows 3×5 .

a.



b.

Using the illustration that you circled, find the value of 3×5 . _____7. Draw a picture, like the one above, that could show $12 \div 4$.Using your picture, find the value of $12 \div 4$. _____

Determine whether each phrase shows a relationship with multiplication or division.

8. Equal parts... _____

12. Quotient... _____

9. Half of... _____

13. Multiply... _____

10. Double... _____

14. Repeated... _____

11. Area... _____
(space inside a 2-D shape)

15. Fraction... _____

Multiplication and Division Pre-Test

Continued

B. Concepts and Skills

Multiply.

$$\begin{array}{r} 16. \quad 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 16 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 11 \\ \times 3 \\ \hline \end{array}$$

19. How many apples are there in total if there are five groups with four apples in each? _____

20. Look at the array to the right for these problems.

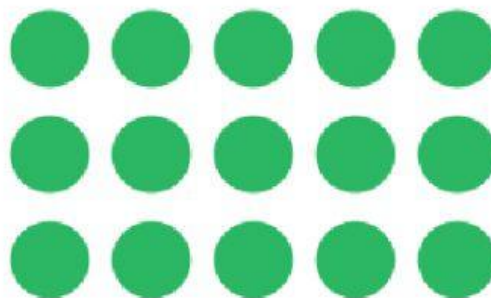
- a. How many rows are there in the array? _____
(Horizontal)

- b. How many columns are there in the array? _____
(Vertical)

- c. Write two possible multiplication sentences that could represent the array above.

$$\underline{\quad 5 \quad} \times \underline{\quad \quad} = \underline{\quad \quad}$$

$$\underline{\quad \quad} \times \underline{\quad 3 \quad} = \underline{\quad \quad}$$



Divide.

$$21. 18 \div 3 = \underline{\quad \quad}$$

$$22. 14 \overline{)42}$$

$$23. 100 \div 10 = \underline{\quad \quad}$$

24. Angela's baseball coach wants to divide 46 players into nine equal groups. How many players are in each group? _____

25. Use the array to the right that is divided into equal parts for the following problems.

- a. How many total dots are there in the array? _____

- b. Find the number of equal groups that were made in the array.

- c. How many dots are there in each group? _____

- d. Complete the division sentence below that represents the array.

$$\frac{\text{total number of dots}}{\text{number of equal groups}} \div \frac{\text{number of dots in each group}}{\text{number of dots in each group}} = \underline{\quad \quad}$$

