

Grade 3
Multiplication and Division Pre-Test

Name _____
 Date _____

A. Vocabulary

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

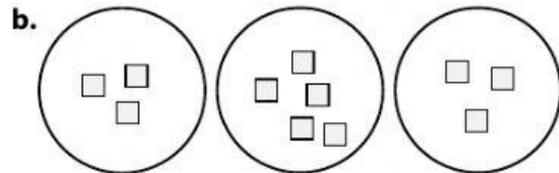
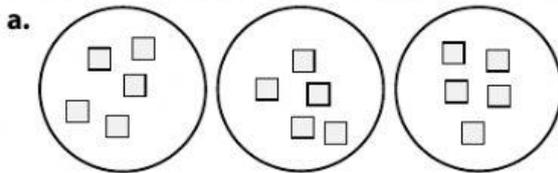
TERMS

- ___ 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 .



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.

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

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

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

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.

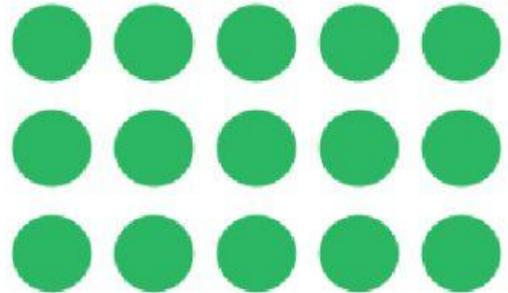
a. How many rows are there in the array? _____
(Horizontal)

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.

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

