

Name: _____ Date: _____

WORD PROBLEM

Amanda had 5 bags of marbles with 3 marbles in each.
Brad had 4 bags of marbles with 4 marbles in each. Who had more marbles?

BASICS BOX

Multiplication is like repeated addition, but faster. We can solve this problem by adding, but since the groups are equal it is easier to multiply.

Amanda $5 \times 3 = 15$ marbles



Brad $4 \times 4 = 16$ marbles



Brad has more.

$$\begin{array}{ccccccc} 5 & \times & 3 & = & 15 \\ \uparrow & & \uparrow & & \uparrow \\ \text{factor} & & \text{factor} & & \text{product} \end{array}$$

PRACTICE

Rewrite each addition sentence as a multiplication fact.

1. $2 + 2 + 2 + 2 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

2. $3 + 3 + 3 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

3. $4 + 4 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

4. $5 + 5 + 5 + 5 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

5. $1 + 1 + 1 + 1 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

6. $6 + 6 + 6 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

7. $5 + 5 + 5 + 5 + 5 + 5 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$


8. Rewrite the multiplication fact as repeated addition.

$4 \times 7 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

JOURNAL

Give an example of how knowing a multiplication fact is more efficient than repeated addition.

EXAMPLE

$6 \times 4 = ?$ 
 $4 + 4 + 4 + 4 + 4 + 4 = 24$

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Introducing Multiplication

Label the parts of this equation.

1. $\begin{array}{c} \nearrow 7 \\ \hline \end{array} \times \begin{array}{c} \nearrow 2 \\ \hline \end{array} = \begin{array}{c} \nearrow 14 \\ \hline \end{array}$

Write a multiplication fact to match each addition sentence.

2. $9 + 9 + 9 + 9 + 9 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

3. $5 + 5 + 5 + 5 + 5 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

4. $7 + 7 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

5. $3 + 3 + 3 + 3 + 3 + 3 + 3 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

6. $2 + 2 + 2 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

7. $4 + 4 + 4 + 4 + 4 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

8. $8 + 8 + 8 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

Write the repeated addition that matches each multiplication fact.

9. $2 \times 5 = \underline{\quad} + \underline{\quad} = \underline{\quad}$

10. $5 \times 2 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

11. $7 \times 3 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

12. $6 \times 7 = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

13. Joe has 7 boxes with 5 pencils in each box. How many pencils does he have? _____

14. Robin earned \$5 every day for 8 days. How much money did she earn? _____