



1

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

2

$$\text{two 1's} = \underline{\quad}$$



1

$$1 + 1 + \underline{\quad} = 3$$

3

$$\text{three 1's} = \underline{\quad}$$



2

$$2 + \underline{\quad} = 4$$

4

$$\text{two 2's} = \underline{\quad}$$



2

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

6

$$\text{three 2's} = \underline{\quad}$$

3×2 means three 2's

1

$3 \times \underline{\quad}$ means three 1's

3

$2 \times \underline{\quad}$ means two 3's



1

$$1 + 1 + 1 + \underline{\quad} = 4$$

4

$$\text{four 1's} = \underline{\quad}$$

1

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

5

$$1 + 1 + 1 + 1 + 1 = \underline{\quad}$$

1

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

1

$$1 + 1 + 1 + 1 + 1 + \underline{\quad} = 6$$

6

$$\text{six 1's} = \underline{\quad}$$

1

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

three 1's

$$3 \times 1 \text{ means } \begin{cases} \text{three 2's} \\ \text{three 1's} \end{cases}$$

four 2's

$$4 \times 2 \text{ means } \begin{cases} \text{four 1's} \\ \text{four 2's} \end{cases}$$

2

$$\text{two 1's} = \underline{\quad}$$

1

$$2 \times \underline{\quad} = 2$$

3

$$\text{three 1's} = \underline{\quad}$$

1

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

6

three 2's = ___

3

___ × 2 = 6

4

two 2's = ___

2

2 × ___ = 4

4

4 × 1 = ___

5

5 × 1 = ___

1

3 × ___ = 3

Which is shorter?

a. 1 + 1 + 1 + 1 + 1 = 5

b. 5 × 1 = 5

Which is shorter?

b.

a. 1 + 1 + 1 + 1 = 4

b. 4 × 1 = 4

8

2 + 2 + 2 + 2 = ___

4

How many 2's did we just add? ___

8

so four 2's = ___

2

4 × ___ = 8

6

$$2 + 2 + 2 = \underline{\quad}$$

3

How many 2's did we add? $\underline{\quad}$

6

so three 2's = $\underline{\quad}$

3

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

7

$$1 + 1 + 1 + 1 + 1 + 1 + 1 = \underline{\quad}$$

1

It is shorter to say $7 \times \underline{\quad} = 7$.

10

$$2 + 2 + 2 + 2 + 2 = \underline{\quad}$$

5

so $\underline{\quad} \times 2 = 10$ (Count the 2's.)

9

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

3

so $\underline{\quad} \times 3 = 9$ (Count the 3's.)

12

Add: $3 + 3 + 3 + 3 = \underline{\quad}$

4

Multiply: $\underline{\quad} \times 3 = 12$

$$1 + 3$$

This sign tells us to add.

$$4 \times 2$$

This sign tells us to $\left\{ \begin{array}{l} \text{subtract.} \\ \text{multiply.} \end{array} \right.$

multiply