

$$1 \cdot 9 =$$
$$2 \cdot 9 =$$

$$10 \cdot 9 =$$
$$5 \cdot 9 =$$

$$2 \cdot 9 =$$
$$4 \cdot 9 =$$

$$4 \cdot 9 =$$

$$5 \cdot 9 =$$

$$6 \cdot 9 =$$

$$7 \cdot 9 =$$

$$9 \cdot 9 =$$

OZmL

$$3 \cdot 9 =$$

$$9 \cdot 9 =$$

$$4 \cdot 9 =$$

$$8 \cdot 9 =$$

$$0 \cdot 9 =$$

$$4 \cdot 9 =$$

$$11 \cdot 9 =$$

$$12 \cdot 9 =$$

$$18 \div 9 =$$
$$36 \div 9 =$$

$$45 \div 9 =$$
$$36 \div 9 =$$

$$45 \div 9 =$$
$$9 \div 9 =$$
$$54 \div 9 =$$

$$45 \div 9 =$$
$$54 \div 9 =$$

OZmL

$$90 \div 9 =$$
$$81 \div 9 =$$

$$90 \div 9 =$$
$$72 \div 9 =$$

$$18 \div 9 =$$
$$36 \div 9 =$$

$$90 \div 9 =$$
$$9 \div 9 =$$
$$81 \div 9 =$$

$$5 \cdot 9 = 45$$
$$1 \cdot 9 = 9$$
$$4 \cdot 9 = 36$$

$$2 \cdot 9 = 18$$
$$4 \cdot 9 = 36$$

$$10 \cdot 9 = 90$$
$$5 \cdot 9 = 45$$

$$1 \cdot 9 = 9$$
$$2 \cdot 9 = 18$$

$$10 \cdot 9 = 90$$
$$1 \cdot 9 = 9$$
$$9 \cdot 9 = 81$$

$$5 \cdot 9 = 45$$
$$2 \cdot 9 = 18$$
$$7 \cdot 9 = 63$$

$$5 \cdot 9 = 45$$
$$1 \cdot 9 = 9$$
$$6 \cdot 9 = 54$$

$$5 \cdot 9 = 45$$

$$10 \cdot 9 = 90$$
$$2 \cdot 9 = 18$$
$$8 \cdot 9 =$$

$$2 \cdot 9 = 18$$
$$2 \cdot 9 = 18$$
$$4 \cdot 9 =$$

$$9 \cdot 9 =$$
$$10 \cdot 9 = 90$$
$$1 \cdot 9 = 9$$

$$1 \cdot 9 = 9$$
$$2 \cdot 9 = 18$$
$$3 \cdot 9 =$$

$$10 \cdot 9 = 90$$
$$2 \cdot 9 = 18$$
$$12 \cdot 9 = 108$$

$$10 \cdot 9 = 90$$
$$1 \cdot 9 = 9$$
$$11 \cdot 9 =$$

$$4 \cdot 9 =$$
$$2 \cdot 9 = 18$$
$$2 \cdot 9 = 18$$

$$0 \cdot 9 = 0$$

$$45 \div 9 = 5$$
$$54 \div 9 = 6$$

$$45 \div 9 = 5$$
$$9 \div 9 = 1$$
$$54 \div 9 = 6$$

$$45 \div 9 = 5$$
$$36 \div 9 =$$

$$18 \div 9 = 2$$
$$36 \div 9 = 4$$

OZmL

$$90 \div 9 = 10$$
$$9 \div 9 = 1$$
$$81 \div 9 = 9$$

$$18 \div 9 = 2$$
$$36 \div 9 = 4$$

$$90 \div 9 = 10$$
$$18 \div 9 = 2$$
$$72 \div 9 = 8$$

$$90 \div 9 = 10$$
$$81 \div 9 = 9$$

$$9 \div 9 =$$
$$18 \div 9 =$$

$$90 \div 9 =$$
$$45 \div 9 =$$

OZmL

$$63 \div 9 =$$

$$36 \div 9 =$$

$$36 \div 9 =$$

$$63 \div 9 =$$

$$54 \div 9 =$$

$$54 \div 9 =$$

$$72 \div 9 =$$

$$72 \div 9 =$$

$$27 \div 9 =$$

OZmL

$$63 \div 9 =$$

$$9 \div 9 =$$
$$18 \div 9 =$$

$$90 \div 9 =$$
$$45 \div 9 =$$

$$54 \div 9 =$$

$$45 \div 9 =$$
$$36 \div 9 =$$

OZmL

$$0 \div 9 =$$

$$18 \div 0 =$$

$$0 \div 0 =$$

$$54 \div 9 =$$

$$99 \div 9 =$$

$$108 \div 9 =$$

$$117 \div 9 =$$

OZmL

$$108 \div 9 =$$

OZmL

$$45 \div 9 = 5$$
$$36 \div 9 =$$

$$45 \div 9 = 5$$
$$18 \div 9 = 2$$
$$63 \div 9 = 7$$

$$90 \div 9 = 10$$
$$45 \div 9 = 5$$

$$9 \div 9 = 1$$
$$18 \div 9 = 2$$

$$45 \div 9 = 5$$
$$9 \div 9 =$$
$$54 \div 9 =$$

$$45 \div 9 = 5$$
$$9 \div 9 = 1$$
$$54 \div 9 = 6$$

$$45 \div 9 = 5$$
$$18 \div 9 = 2$$
$$63 \div 9 = 7$$

$$18 \div 9 = 2$$
$$36 \div 9 =$$

$$90 \div 9 = 10$$
$$9 \div 9 = 1$$
$$63 \div 9 = 9$$

$$18 \div 9 = 2$$
$$27 \div 9 = 3$$

$$90 \div 9 = 10$$
$$18 \div 9 = 2$$
$$72 \div 9 = 8$$

$$90 \div 9 = 10$$
$$72 \div 9 =$$

$$45 \div 9 = 5$$
$$36 \div 9 = 4$$

$$45 \div 9 = 5$$
$$9 \div 9 =$$
$$54 \div 9 =$$

$$90 \div 9 = 10$$
$$45 \div 9 = 5$$

$$9 \div 9 = 1$$
$$18 \div 9 = 2$$

$$6 \cdot 9 = 54$$
$$54 \div 9 = 6$$

Für  $0 : 0$  ist kein Ergebnis definiert. Das Problem ist, dass wenn:  
 $0 : 0 = \cdot$ , dann ist  $0 \cdot \cdot = 0$ .  
Es ergäbe sich aber auch für jedes  $y \neq \cdot$ :  
wenn  $0 : 0 = y$ , dann ist  $0 \cdot y = 0$ .  
Sprich,  $0 : 0$  kann alle denkbaren Zahlen als Lösung haben, was dazu führt dass keine eindeutige Lösung möglich ist.

$18 \div 0 =$  wie oft  
kannst du von 18 Null  
wegnehmen? Beliebige oft  
kannst du das machen und  
das ist keine Zahl  
**Osnabrücker Zentrum für  
mathematisches Lernen.**

$$0 \div 9 = 0$$

$$108 \div 9 =$$
$$90 \div 9 = 10$$
$$18 \div 9 = 2$$

$$117 \div 9 = 13$$
$$90 \div 9 = 10$$
$$27 \div 9 = 3$$

$$108 \div 9 = 12$$
$$90 \div 9 = 10$$
$$18 \div 9 = 2$$

$$99 \div 9 = 11$$
$$90 \div 9 = 10$$
$$9 \div 9 = 1$$