



The 9 Times Trick



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Name: _____

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From the video 9×7 : first $10 \times 7 = 70$, then take 7 away $\rightarrow 9 \times 7 = 63$ **1 Now it's your turn!**

What is 9 times 6?

First do 10×6 . Then take 6 away.

$10 \times 6 = \square \quad \square - 6 = \square$

$9 \times 6 = \square$

3 The 9 times table.

$1 \times 9 = \square$

$2 \times 9 = \square$

$3 \times 9 = \square$

$4 \times 9 = \square$

$5 \times 9 = \square$

$6 \times 9 = \square$

$7 \times 9 = \square$

$8 \times 9 = \square$

$9 \times 9 = \square$

$10 \times 9 = \square$

5 Think backwards.

Which number is missing?

$\square \times 9 = 72$

$\square \times 9 = 36$

$72 \div 9 = \square$

6 Draw 3×9 as rows and calculate.

3 rows, 9 dots in every row. Shade them in.

$3 \times 9 = \square$

2 The 9 times trick.

First times 10, then take one row away.

a) $10 \times 5 = \square \quad \square - 5 = \square$

b) $10 \times 3 = \square \quad \square - 3 = \square$

c) $10 \times 4 = \square \quad \square - 4 = \square$

4 Swap the numbers.

$9 \times 8 = \square$

$8 \times 9 = \square$

$9 \times 3 = \square$

$3 \times 9 = \square$

4 children have 9 pencils each. How many pencils are there altogether?

$\square \times \square = \square$

★ Brain teaserBen works out 9×8 like this: $10 \times 8 = 80$, $80 - 9 = 71$. Is he right? Find the mistake.



The 9 Times Trick

**1** Now it's your turn!

$$9 \times 6 = 54$$

$$10 \times 6 = 60, 60 - 6 = 54$$

2 The 9 times trick.

$$9 \times 5: 50 - 5 = 45$$

$$9 \times 3: 30 - 3 = 27$$

$$9 \times 4: 40 - 4 = 36$$

3 The 9 times table.

$$1 \times 9 = 9 \quad 2 \times 9 = 18$$

$$3 \times 9 = 27 \quad 4 \times 9 = 36$$

$$5 \times 9 = 45 \quad 6 \times 9 = 54$$

$$7 \times 9 = 63 \quad 8 \times 9 = 72$$

$$9 \times 9 = 81 \quad 10 \times 9 = 90$$

4 Swap the numbers.

$$9 \times 8 = 72 \text{ and } 8 \times 9 = 72$$

$$9 \times 3 = 27 \text{ and } 3 \times 9 = 27$$

$$4 \times 9 = 36$$

5 Think backwards.

$$8 \times 9 = 72$$

$$4 \times 9 = 36$$

$$72 \div 9 = 8$$

★ Brain teaser

No. He must take away one 8: $80 - 8 = 72$.

6 Draw the problem.

$$3 \times 9 = 27$$

For parents and teachers: This worksheet goes with the video "The 9 Times Trick" (Math Story 97, Grade 3). The 9 times trick: 9 times a number is 10 times the number, minus the number once. In the dot array exactly one row is too many.

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