The 9 Times Trick

MathApex

Name: _____ Date: _____

Watch video

From the video 9 × 7: first 10 × 7 = 70, then take 7 away → **9 × 7 = 63**

1 Now it's your turn!

What is 9 times 6?

First do 10 × 6. Then take 6 away.

10 × 6 = ☐ ☐ − 6 = ☐

9 × 6 = ☐

2 The 9 times trick.

First times 10, then take one row away.

a) 10 × 5 = ☐ ☐ − 5 = ☐

b) 10 × 3 = ☐ ☐ − 3 = ☐

c) 10 × 4 = ☐ ☐ − 4 = ☐

3 The 9 times table.

1 × 9 = ☐ 2 × 9 = ☐

3 × 9 = ☐ 4 × 9 = ☐

5 × 9 = ☐ 6 × 9 = ☐

7 × 9 = ☐ 8 × 9 = ☐

9 × 9 = ☐ 10 × 9 = ☐

4 Swap the numbers.

9 × 8 = ☐ 8 × 9 = ☐

9 × 3 = ☐ 3 × 9 = ☐

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

☐ × ☐ = ☐

5 Think backwards.

Which number is missing?

☐ × 9 = 72

☐ × 9 = 36

72 ÷ 9 = ☐

Brain teaser

Ben works out 9 × 8 like this: 10 × 8 = 80, 80 − 9 = 71. Is he right? Find the mistake.

6 Draw 3 × 9 as rows and calculate.

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

3 × 9 = ☐

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MATH STORY 97 · ANSWERS

The 9 Times Trick

Watch video

1 Now it's your turn!

9 × 6 = 54

10 × 6 = 60, 60 − 6 = 54

2 The 9 times trick.

9 × 5: 50 − 5 = 45
9 × 3: 30 − 3 = 27
9 × 4: 40 − 4 = 36

3 The 9 times table.

1 × 9 = 9	2 × 9 = 18
3 × 9 = 27	4 × 9 = 36
5 × 9 = 45	6 × 9 = 54
7 × 9 = 63	8 × 9 = 72
9 × 9 = 81	10 × 9 = 90

4 Swap the numbers.

9 × 8 = 72 and 8 × 9 = 72
9 × 3 = 27 and 3 × 9 = 27
4 × 9 = 36

5 Think backwards.

8 × 9 = 72
4 × 9 = 36
72 ÷ 9 = 8

★ Brain teaser

No. He must take away one 8: 80 − 8 = **72**.

6 Draw the problem.

3 × 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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