

Varied Fluency
Multiply and Divide by 9

Developing

1a. $27 \div 9 = 3$; $9 \times 3 = 27$

2a. $8 \times 9 = 72$; $72 \div 9 = 8$; $9 \times 8 = 72$; $72 \div 8 = 9$

3a. $81 = 9 \times 9$; $81 \div 9 = 9$

4a. $5 \times 9 = 45$; $45 \div 5 = 9$

Expected

5a. $54 \div 6 = 9$; $6 \times 9 = 54$

6a. $63 \div 7 = 9$; $7 \times 9 = 63$; $63 \div 9 = 7$; $9 \times 7 = 63$

7a. $36 = 4 \times 9$; $9 \times 4 = 36$; $4 = 36 \div 9$

8a. $5 \times 9 = 45$; $11 \times 9 = 99$

Greater Depth

9a. Bar model completed with an 8 in each section. $9 \times 8 = 72$; $72 \div 9 = 8$

10a. $11 \times 9 = 99$; $9 \times 11 = 99$; $99 \div 9 = 11$; $99 \div 11 = 9$

11a. $81 = 9 \times 9$; $81 \div 9 = 9$. The array should show 9 rows of 9 dots.

12a. $11 \times 9 = 99$; $10 \times 9 = 90$

Varied Fluency
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Developing

1b. $54 \div 9 = 6$; $9 \times 6 = 54$

2b. $12 \times 9 = 108$; $108 \div 9 = 12$; $9 \times 12 = 108$; $108 \div 12 = 9$

3b. $63 \div 7 = 9$; $7 \times 9 = 63$; $63 \div 9 = 7$

4b. $10 \times 9 = 90$; $90 \div 10 = 9$

Expected

5b. $108 \div 9 = 12$; $9 \times 12 = 108$

6b. $99 \div 11 = 9$; $11 \times 9 = 99$; $99 \div 9 = 11$; $9 \times 11 = 99$

7b. $72 = 8 \times 9$; $72 \div 9 = 8$

8b. $9 \times 9 = 81$; $12 \times 9 = 108$

Greater Depth

9b. Bar model completed with a 4 in each section. $9 \times 4 = 36$; $36 \div 9 = 4$

10b. $12 \times 9 = 108$; $9 \times 12 = 108$; $108 \div 9 = 12$; $108 \div 12 = 9$

11b. $9 = 27 \div 3$; $27 = 9 \times 3$; $27 \div 9 = 3$. The array should show 9 rows of 3 dots.

12b. $6 \times 9 = 54$; $2 \times 9 = 18$