



Multiplication

Grade 4

Facts: 7s, 8s and 9s

The facts students miss most, with the nines trick and the eights doubling chain.

WHAT'S INSIDE

- 10 exercises with space to write
- Full answer key on the last page
- US Letter, black and white, one page per section



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Grade 4

Name: _____

Date: _____

Remember

For the nines: multiply by 10 and take one group away. $9 \times 6 = 60 - 6 = 54$. For the eights, double three times: 8×6 is $6 \rightarrow 12 \rightarrow 24 \rightarrow 48$. The two hardest facts of all are $7 \times 8 = 56$ and $6 \times 7 = 42$, so those are worth memorizing on their own.

1. Write each product.

$$7 \times 3 = \quad 7 \times 6 = \quad 7 \times 8 = \quad 7 \times 9 =$$

2. Double three times to find each product.

$$8 \times 4 = \quad 8 \times 6 = \quad 8 \times 7 = \quad 8 \times 9 =$$

3. Use the ten-minus-one strategy for the nines.

$$9 \times 4 = \quad 9 \times 6 = \quad 9 \times 8 = \quad 9 \times 12 =$$

4. Show how 10×7 helps you find 9×7 .

5. Find the missing factor.

$$7 \times \underline{\quad} = 49 \quad 8 \times \underline{\quad} = 64 \quad 9 \times \underline{\quad} = 81$$

6. Add the digits of 9×3 , 9×5 and 9×8 . What do you notice?



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7. A school bus holds 48 students. Eight buses leave on the field trip. How many students is that?

8. There are 7 days in a week. How many days are there in 9 weeks?

9. Which product is larger, 7×8 or 9×6 ? By how much?

10. Write the fact family for 7, 8 and 56.



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1. 21; 42; 56; 63
2. 32; 48; 56; 72
3. 36; 54; 72; 108
4. $70 - 7 = 63$. Nine groups is ten groups with one group taken away.
5. 7; 8; 9
6. $27 \rightarrow 2 + 7 = 9$; $45 \rightarrow 4 + 5 = 9$; $72 \rightarrow 7 + 2 = 9$. In the nine times table the digits of the product always add up to 9.
7. $8 \times 48 = 384$ students.
8. $9 \times 7 = 63$ days.
9. $7 \times 8 = 56$ and $9 \times 6 = 54$, so 7×8 is larger by 2.
10. $7 \times 8 = 56$; $8 \times 7 = 56$; $56 \div 7 = 8$; $56 \div 8 = 7$.