

Name:
Grade:

Date:

Associative Property

Apply the Associative Property to Complete the Missing Values

1) $13 \times (19 \times \underline{\quad}) = (19 \times 24) \times \underline{\quad}$

2) $11 \times (20 \times \underline{\quad}) = 11 \times (14 \times \underline{\quad})$

3) $(22 \times 20) \times \underline{\quad} = (\underline{\quad} \times 15) \times 20$

4) $(\underline{\quad} \times 20) \times 15 = 15 \times (\underline{\quad} \times 18)$

5) $(21 + \underline{\quad}) + 23 = (\underline{\quad} + 22) + 21$

6) $(\underline{\quad} + 18) + 15 = (15 + \underline{\quad}) + 20$

7) $(20 \times \underline{\quad}) \times 19 = \underline{\quad} \times (20 \times 24)$

8) $22 \times (21 \times \underline{\quad}) = (24 \times 22) \times \underline{\quad}$

9) $\underline{\quad} \times (21 \times 18) = (21 \times 14) \times \underline{\quad}$

10) $\underline{\quad} \times (23 \times 19) = (19 \times 24) \times \underline{\quad}$