

Multiplying using the Distributive Property

A. Fill in the missing numbers to complete the statements

1. $78 \times 34 = 78 \times (\text{_____} + 8)$
2. $45 \times 17 = (45 \times 10) + (45 \times \text{_____})$
3. $34 \times 21 = (\text{_____} \times 20) + (\text{_____} \times 1)$
4. $54 \times 73 = (54 \times \text{_____}) + (\text{_____} \times 13)$
5. $32 \times 45 = 32 \times (\text{_____} + 12)$
6. $17 \times 37 = 17 \times (40 - \text{_____})$
7. $215 \times 58 = (\text{_____} \times 60) - (\text{_____} \times \text{_____})$
8. $88 \times 15 = (15 \times 90) - (\text{_____} \times \text{_____})$

B. Express in a shorter form as a product of two numbers

Example: $(12 \times 8) + (12 \times 7) = 12 \times 15$

1. $15 \times (23 + 2) =$
2. $24 \times (106 - 6) =$
3. $38 \times (37 - 2) =$
4. $(5 \times 12) + (5 \times 7) =$
5. $(34 \times 20) - (34 \times 3) =$
6. $(57 \times 30) + (57 \times 6) =$