

Distributive Property (Break Apart) Worksheet - Answer Key

3rd Grade - distributive property (break apart a factor) | 14 minutes

Break apart a factor into two easier facts, multiply each, and add the products.

Example: $7 \times 6 = (5 \times 6) + (2 \times 6) = 30 + 12 = 42$.

1. $7 \times 6 = (5 \times 6) + (2 \times 6) =$

Answer: $30 + 12 = 42$

2. $8 \times 4 = (4 \times 4) + (4 \times 4) =$

Answer: $16 + 16 = 32$

3. $6 \times 7 = (3 \times 7) + (3 \times 7) =$

Answer: $21 + 21 = 42$

4. $9 \times 5 = (5 \times 5) + (4 \times 5) =$

Answer: $25 + 20 = 45$

5. $7 \times 8 = (5 \times 8) + (2 \times 8) =$

Answer: $40 + 16 = 56$

6. $8 \times 6 = (4 \times 6) + (4 \times 6) =$

Answer: $24 + 24 = 48$

Challenge

7. Break apart 9×7 into two easier facts and solve.

Answer: $(5 \times 7) + (4 \times 7) = 35 + 28 = 63$

8. Why does breaking apart a factor give the right answer?

Answer: The two parts add to the whole factor, so their products add to the whole product (the distributive property).