ALBERT

Name _____ Date _____

Properties of Multiplication Worksheet

Grade 3 · Common Core 3.OA.B.5

> Apply properties of operations as strategies to multiply and divide.

Practice

Builds the skill step by step.

1. $6 \times 4 = 24$. What is 4×6?

2. Which has the same product as 3×8?

   A. $8 - 3$

   B. 8×3

   C. $3 + 8$

   D. 3×3

3. Fill in the box: $7 \times 2 = 2 \times \square$

4. Find $2 \times 4 \times 5$. Hint: find 4×5 first.

5. Gabe breaks 6×7 into 6×5 and 6×2. Which shows his idea?

   A. $(6 \times 5) + (6 \times 2)$

   B. $(6 \times 5) + 2$

   C. $(6 + 5) \times 2$

   D. $(6 \times 5) \times (6 \times 2)$

6. Find $5 \times 3 \times 2$. Hint: find 5×2 first.

7. $8 \times 5 = 40$ and $8 \times 2 = 16$. Use these facts to find 8×7.

8. Fill in the box: $\square \times 9 = 9 \times 6$

9. Fill in the box: $4 \times 6 = (4 \times 3) + (4 \times \square)$

10. What is 1×9?

    A. 0

    B. 1

    C. 9

    D. 10

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On Level

Grade-level practice.

1. 9 × 5 = 45. Use this fact to find 9 × 6.

2. Fill in the box: (3 × 2) × 4 = 3 × (2 × □)

3. Ty knows that 5 × 8 = 40. Which other fact does he know without counting?

   A. 5 × 9 = 40

   B. 8 × 4 = 40

   C. 8 × 5 = 40

   D. 40 × 5 = 8

4. Break apart 7 × 8 as (7 × 5) + (7 × 3). What is 7 × 8?

5. Find 2 × 7 × 5.

6. 8 × 6 = (8 × 3) + (8 × 3). What is 8 × 6?

7. Fill in the box: 3 × 7 × 2 = 6 × □

8. Which can you use to find 4 × 9?

   A. (4 × 5) + (4 × 4)

   B. (4 × 5) + 4

   C. (4 + 5) × (4 + 4)

   D. 4 × 5 × 4

9. Find 5 × 4 × 3.

10. Fill in the box: 6 × □ = 0

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Challenge

Multi-step and word problems that stretch it.

1. 10 × 7 = 70 and 2 × 7 = 14. Use these facts to find 12 × 7.

2. Which one does NOT equal 6 × 8?

   A. (6 × 4) + (6 × 4)

   B. (6 × 5) + 3

   C. (3 × 8) + (3 × 8)

   D. 8 × 6

3. A pack of juice boxes has 3 rows with 2 juice boxes in each row. How many juice boxes are in 5 packs?

4. Fill in the box: 9 × 7 = (9 × 5) + (9 × □)

5. 2 × 7 = 14. Use this fact to find 4 × 7.

6. Fill in the box: □ × 8 = 4 × 2 × 8

7. Ana wants to break apart 7 × 6. She writes (7 × 3) + 3. What should she have written?

   A. (7 × 3) + (7 × 3)

   B. (7 × 3) + 3 + 3

   C. (7 + 3) × 6

   D. 7 × 3 × 3

8. Find 5 × 8 × 2 in your head. Hint: which two factors are easiest to multiply first?

9. Lee knows 6 × 6 = 36. Use it to find 6 × 7.

10. Fill in the box: (4 × 5) + (4 × 3) = 4 × □