Facts by strategy

3RD GRADE MULTIPLICATION · PRACTICE SHEET

Start from a fact you know. 9 × 8 is one group of 8 fewer than 10 × 8, so it's 80 − 8 = 72.

A. Use a fact you know. Fill in the blanks.

A1

5 × 7 = 35, so 6 × 7 = 35 + _____ = _____

A2

10 × 8 = 80, so 9 × 8 = 80 − _____ = _____

A3

2 × 6 = 12, so 4 × 6 = 12 + _____ = _____

A4

2 × 9 = 18, so 3 × 9 = 18 + _____ = _____

B. Skip-count. Fill in the missing numbers.

B1 Count by 6: 6, 12, _____, 24, _____, 36, _____

B2 Count by 8: 8, _____, 24, _____, 40, _____

B3 Count by 9: 9, 18, _____, 36, 45, _____, 63, _____

C. Pick a strategy. Use any strategy. Show your work, then write the total.

C1 **9 × 7**

Total: _____

C2 **6 × 9**

Total: _____

C3 **8 × 6**

Total: _____

Answer key: Facts by strategy

FOR THE GROWN-UP. EVERY ANSWER HERE WAS COMPUTED BY CODE.

Part C has more than one right way. Count any strategy as right if it reaches the right total.

A. Use a fact you know.

A1 6 × 7 is one more group of 7 than 5 × 7. 35 + 7 = 42, so 6 × 7 = 42.

A2 9 × 8 is one fewer group of 8 than 10 × 8. 80 − 8 = 72, so 9 × 8 = 72.

A3 4 × 6 is double 2 × 6. 12 + 12 = 24, so 4 × 6 = 24.

A4 3 × 9 is one more group of 9 than 2 × 9. 18 + 9 = 27, so 3 × 9 = 27.

B. Skip-count.

B1 6, 12, 18, 24, 30, 36, 42. The last number is 7 × 6 = 42.

B2 8, 16, 24, 32, 40, 48. The last number is 6 × 8 = 48.

B3 9, 18, 27, 36, 45, 54, 63, 72. The last number is 8 × 9 = 72.

C. Pick a strategy.

C1 9 × 7 = 63. Any strategy that gets 63 is right. One way: 10 × 7 = 70, and 70 − 7 = 63.

C2 6 × 9 = 54. Any strategy that gets 54 is right. One way: 5 × 9 = 45, and 45 + 9 = 54.

C3 8 × 6 = 48. Any strategy that gets 48 is right. One way: 4 × 6 = 24, and 24 + 24 = 48.

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