Multiplication and Equal-Group Puzzles

Choose one answer per question. Circle A, B, C, or D.

1. Seven trays each hold zero muffins. How many muffins do the trays hold altogether?
   A. 0
   B. 1
   C. 7
   D. 70

2. Eight teams each earn 6 points. How many points do all the teams earn?
   A. 46
   B. 42
   C. 48
   D. 56

3. A sticker sheet has 5 rows with 9 stickers in each row. How many stickers are on the sheet?
   A. 40
   B. 45
   C. 50
   D. 54

4. Which multiplication expression has the same product as 14 × 6 because it reverses the order of the factors?
   A. 10 × 8
   B. 14 × 7
   C. 16 × 4
   D. 6 × 14

5. What is 70 × 30?
   A. 210
   B. 2,100
   C. 2,010
   D. 21,000

6. A delivery sends 8 boxes of 27 blank cards each. How many blank cards are in the delivery?

A. 216
B. 186
C. 206
D. 224

7. What is 34 × 26?

A. 904
B. 784
C. 864
D. 884

8. Which expression is exactly one less than 20 × 20?

A. 19 × 20
B. 18 × 22
C. 19 × 21
D. 20 × 21

9. A supply room has 5 crates. Each crate has 12 trays, and each tray has 8 labels. How many labels are in all the crates?

A. 480
B. 96
C. 440
D. 600

10. What is 36 × 99?

A. 3,664
B. 3,600
C. 3,546
D. 3,564

11. A room has 12 rows of 18 chairs. In each of 2 rows, 4 chairs are reserved. How many chairs are unreserved?

A. 212
B. 216
C. 208
D. 180

12. Plan A uses 24 boxes with 16 parts in each. Plan B uses 20 boxes with 19 parts in each. Which plan ships more parts, and by how many?

A. Plan B by 4 parts
B. Plan A by 4 parts
C. Plan A by 20 parts
D. The plans ship the same number.

13. An old layout uses 8 shelves with 15 bins per shelf and 6 folders per bin. A new layout uses 10 shelves with 12 bins per shelf and 8 folders per bin. How many more folders does the new layout hold?

A. 320
B. 120
C. 180
D. 240

14. An event has 275 participants who each need 3 name labels. The organizers already have 18 packs of 40 labels. What is the fewest additional packs of 40 they need?

A. 3
B. 2
C. 4
D. 7

15. A full case holds 12 cartons, and each carton holds 8 snack bars. A delivery contains some full cases and 2 additional full cartons. Altogether it contains 496 bars. How many full cases arrived?

A. 6
B. 4
C. 5
D. 7