Name _____

Multiply Using Mental Math

COMMON CORE STANDARD CC.4.NBT.5

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Find the product. Tell which strategy you used.

1. 6×297 **Think:** $297 = 300 - 3$

$6 \times 297 = 6 \times (300 - 3)$

$= (6 \times 300) - (6 \times 3)$

$= 1{,}800 - 18$

$= 1{,}782$

1,782;

use subtraction

2. $8 \times 25 \times 23$

3. 8×604

4. 50×28

5. 9×199

6. $20 \times 72 \times 5$

7. 32×25

Problem Solving REAL WORLD

8. Section J in an arena has 20 rows. Each row has 15 seats. All tickets cost $18 each. If all the seats are sold, how much money will the arena collect for Section J?

9. At a high-school gym, the bleachers are divided into 6 equal sections. Each section can seat 395 people. How many people can be seated in the gym?

TEST PREP

Lesson Check (CC.4.NBT.5)

1. Pencils come in cartons of 24 boxes. A school bought 50 cartons of pencils for the start of school. Each box of pencils cost $2. How much did the school spend on pencils?

   Ⓐ $240

   Ⓑ $1,200

   Ⓒ $2,400

   Ⓓ $4,800

2. The school also bought 195 packages of markers. There are 6 markers in a package. How many markers did the school buy?

   Ⓐ 1,170

   Ⓑ 1,195

   Ⓒ 1,200

   Ⓓ 1,230

Spiral Review (CC.4.NBT.4, CC.4.NBT.5)

3. Alex has 175 baseball cards. Rodney has 3 times as many baseball cards as Alex. How many fewer cards does Alex have than Rodney? (Lesson 2.7)

   Ⓐ 700

   Ⓑ 525

   Ⓒ 450

   Ⓓ 350

4. A theater seats 1,860 people. The last 6 shows have been sold out. Which is the **best** estimate of the total number of people attending the last 6 shows? (Lesson 2.4)

   Ⓐ fewer than 6,000

   Ⓑ about 6,000

   Ⓒ fewer than 12,000

   Ⓓ more than 20,000

5. At one basketball game, there were 1,207 people watching. At the next game, there were 958 people. How many people in all were at the two games? (Lesson 1.6)

   Ⓐ 2,155

   Ⓑ 2,165

   Ⓒ 2,265

   Ⓓ 10,787

6. Bill bought 4 jigsaw puzzles. Each puzzle has 500 pieces. How many pieces are in all the puzzles altogether? (Lesson 2.3)

   Ⓐ 200

   Ⓑ 900

   Ⓒ 2,000

   Ⓓ 20,000