Name _____

Problem Solving • Use the Distributive Property

PROBLEM SOLVING
Lesson 5.3

COMMON CORE STANDARD CC.3.NBT.3
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Read each problem and solve.

1. Each time a student turns in a perfect spelling test, Ms. Ricks puts an achievement square on the bulletin board. There are 6 rows of squares on the bulletin board. Each row has 30 squares. How many perfect spelling tests have been turned in?

Think: $6 \times 30 = 6 \times (10 + 10 + 10)$

$= 60 + 60 + 60 = 180$

180 spelling tests

2. Norma practices violin for 50 minutes every day. How many minutes does Norma practice violin in 7 days?

_____

3. A kitchen designer is creating a new backsplash for the wall behind a kitchen sink. The backsplash will have 5 rows of tiles. Each row will have 20 tiles. How many tiles are needed for the entire backsplash?

_____

4. A bowling alley keeps shoes in rows of cubbyholes. There are 9 rows of cubbyholes, with 20 cubbyholes in each row. If there is a pair of shoes in every cubbyhole, how many pairs of shoes are there?

_____

5. The third-grade students are traveling to the science museum in 8 buses. There are 40 students on each bus. How many students are going to the museum?

_____

TEST PREP

Lesson Check (CC.3.NBT.3)

1. Each snack pack holds 20 crackers. How many crackers in all are there in 4 snack packs?

   Ⓐ 60
   Ⓑ 80
   Ⓒ 100
   Ⓓ 800

2. A machine makes 70 springs each hour. How many springs will the machine make in 8 hours?

   Ⓐ 500
   Ⓑ 520
   Ⓒ 540
   Ⓓ 560

Spiral Review (CC.3.OA.1, CC.3.NBT.1, CC.3.MD.4)

3. Lila read 142 pages on Friday and 168 pages on Saturday. Which is the best estimate of how many pages Lila read on Friday and Saturday combined? (Lesson 1.3)

   Ⓐ 100
   Ⓑ 200
   Ⓒ 300
   Ⓓ 400

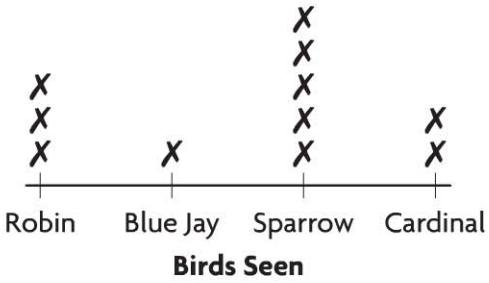
4. Jessica wrote $6 + 6 + 6 + 6$ on the board. Which is another way to show $6 + 6 + 6 + 6$? (Lesson 3.2)

   Ⓐ 4×4
   Ⓑ 4×6
   Ⓒ $4 \times 4 \times 6$
   Ⓓ 6×6

Use the line plot for 5–6.

5. Eliot made a line plot to record the number of birds he saw at his bird feeder. How many more sparrows than blue jays did he see? (Lesson 2.7)

   Ⓐ 2
   Ⓑ 3
   Ⓒ 4
   Ⓓ 5



6. How many robins and cardinals combined did Eliot see? (Lesson 2.7)

   Ⓐ 2
   Ⓑ 3
   Ⓒ 4
   Ⓓ 5