

PROBLEM SOLVING

Lesson 3.7

Name _____

Problem Solving • Multiply 2-Digit Numbers

COMMON CORE STANDARD CC.4.OA.3

Use the four operations with whole numbers to solve problems.

Solve each problem. Use a bar model to help.

1. Mason counted an average of 18 birds at his bird feeder each day for 20 days. Gloria counted an average of 21 birds at her bird feeder each day for 16 days. How many more birds did Mason count at his feeder than Gloria counted at hers?

Birds counted by Mason: $18 \times 20 = 360$

Birds counted by Gloria: $21 \times 16 = 336$

Draw a bar model to compare.

Subtract. $360 - 336 = 24$

360 birds counted by Mason

336 birds counted by Gloria

?

So, Mason counted 24 more birds.

2. The 24 students in Ms. Lee's class each collected an average of 18 cans for recycling. The 21 students in Mr. Galvez's class each collected an average of 25 cans for recycling. How many more cans were collected by Mr. Galvez's class than Ms. Lee's class?
- _____
- _____

3. At East School, each of the 45 classrooms has an average of 22 students. At West School, each of the 42 classrooms has an average of 23 students. How many more students are at East School than at West School?
- _____
- _____

4. A zoo gift shop orders 18 boxes of 75 key rings each and 15 boxes of 80 refrigerator magnets each. How many more key rings than refrigerator magnets does the gift shop order?
- _____
- _____

Lesson Check (CC.4.OA.3)

1. Ace Manufacturing ordered 17 boxes with 85 ball bearings each. They also ordered 15 boxes with 90 springs each. How many more ball bearings than springs did they order?
(A) 5
(B) 85
(C) 90
(D) 95
2. Elton hiked 16 miles each day on a 12-day hiking trip. Lola hiked 14 miles each day on her 16-day hiking trip. In all, how many more miles did Lola hike than Elton hiked?
(A) 2 miles
(B) 18 miles
(C) 32 miles
(D) 118 miles

Spiral Review (CC.4.OA.2, CC.4.NBT.1, CC.4.NBT.3, CC.4.NBT.5)

3. An orchard has 24 rows of apple trees. There are 35 apple trees in each row. How many apple trees are in the orchard? (Lesson 3.6)
(A) 59
(B) 192
(C) 740
(D) 840
4. An amusement park reported 354,605 visitors last summer. What is this number rounded to the nearest thousand? (Lesson 1.4)
(A) 354,600
(B) 355,000
(C) 360,000
(D) 400,000
5. Attendance at the football game was 102,653. What is the value of the digit 6? (Lesson 1.1)
(A) 6
(B) 60
(C) 600
(D) 6,000
6. Jill's fish weighs 8 times as much as her parakeet. Together, the pets weigh 63 ounces. How much does the fish weigh? (Lesson 2.2)
(A) 7 ounces
(B) 49 ounces
(C) 55 ounces
(D) 56 ounces