Student Activity Book

Lunchtime at the Bird House
(SAB pp. 623–624)
Questions 1–5
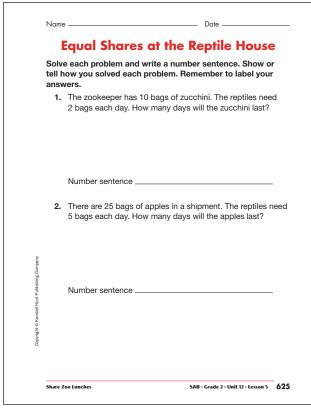
1. 3 orange segments per bird bowl
2. 4 grapes per bird bowl
3. 2 leaves of spinach per bird bowl
4. 4 banana slices per bird bowl
5. 7 strawberries per bird bowl

Name _____ Date _____

Lunchtime at the Bird House

It is lunchtime at the Bird House. Help the zookeeper share the food. Draw pictures to show how many items each bird will get.

1. Draw 6 bird bowls. Share 18 orange segments.

   How many will each bird get? _____

2. Draw 3 bird bowls. Share 12 grapes.

   How many will each bird get? _____

Share Zoo Lunches   SAB · Grade 2 · Unit 12 · Lesson 5 **623**

Student Activity Book - Page 623

Name _____ Date _____

3. Draw 5 bird bowls. Share 10 leaves of spinach.

   How many will each bird get? _____

4. Draw 5 bird bowls. Share 20 banana slices.

   How many will each bird get? _____

5. Draw 2 bird bowls. Share 14 strawberries.

   How many will each bird get? _____

624 SAB · Grade 2 · Unit 12 · Lesson 5   Share Zoo Lunches

Student Activity Book - Page 624

Name _____ Date _____

Equal Shares at the Reptile House

Solve each problem and write a number sentence. Show or
tell how you solved each problem. Remember to label your
answers.

1. The zookeeper has 10 bags of zucchini. The reptiles need
   2 bags each day. How many days will the zucchini last?

   Number sentence _____

2. There are 25 bags of apples in a shipment. The reptiles need
   5 bags each day. How many days will the apples last?

   Number sentence _____

Share Zoo Lunches   SAB · Grade 2 · Unit 12 · Lesson 5   **625**

Student Activity Book - Page 625

Name _____ Date _____

3. The zookeeper received 16 bags of beans. If the reptiles eat
   2 bags a day, how many days will the beans last?

   Number sentence _____

4. The reptiles eat 4 bags of kale each day. The zookeeper has
   12 bags. How many days will it last?

   Number sentence _____

5. The zookeeper received 24 heads of cabbage. The reptiles
   need 4 heads each day. How many days will it last?

   Number sentence _____

626 SAB · Grade 2 · Unit 12 · Lesson 5   Share Zoo Lunches

Student Activity Book - Page 626

Equal Shares at the Reptile House
(SAB pp. 625–626)
Questions 1–5

Strategies and number sentences may vary. Possible
responses are given.

1. 5 days. Possible strategy: I drew 10 bags of
   zucchini. I circled 2 for each day. It will last
   5 days.

   Possible number sentences: $10 \div 2 = 5$ days,
   $10 - 2 - 2 - 2 - 2 - 2 = 0$, $2 \times \underline{5} = 10$, or
   $2 + 2 + 2 + 2 + 2 = 10$

2. 5 days. Possible strategy: I used skip counting.
   I counted by fives until I reached 25: 5, 10, 15,
   20, 25. It will last 5 days.

   Possible number sentences:
   $5 + 5 + 5 + 5 + 5 = 25$, $5 \times \underline{5} = 25$ days, or
   $25 \div 5 = 5$ days

3. 8 days. Possible strategy: I used 16 connecting
   cubes. I made groups of 2 and I had 8 groups.

   Possible number sentences: $16 \div 2 = 8$ days,
   $2 \times \underline{8} = 16$, or
   $2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$

4. 3 days. Possible strategy: I kept subtracting.
   The first day the reptiles ate $12 - 4 = 8$ bags.
   The second day they started with 8 bags and ate
   4 more of them: $8 - 4 = 4$. They ate 4 bags for
   one more day and then they were out of kale:
   $4 - 4 = 0$.

   Possible number sentences: $12 \div 4 = 3$ days,
   $12 - 4 - 4 - 4 = 0$, $4 \times \underline{3} = 12$, or
   $4 + 4 + 4 = 12$

5. 6 days. Possible strategy: I drew 24 heads of
   cabbage. I circled 4 for each day. I had
   6 groups.

   Possible number sentences: $24 \div 4 = 6$ days,
   $24 - 4 - 4 - 4 - 4 - 4 - 4 = 0$, $4 \times \underline{6} = 24$,
   or $4 + 4 + 4 + 4 + 4 + 4 = 24$

Zoo Kitchen Problems (SAB pp. 627–628)
Questions 1–5

Strategies and number sentences may vary. Possible responses are given.

1. 8 heads of lettuce. Possible strategy: I drew 4 rabbits and gave each 2 heads of lettuce.

   Possible number sentences:
   $2 + 2 + 2 + 2 = 4$ heads of lettuce, $2 \times 4 = 8$

2. 3 days. Possible strategy: I used a number line. I made constant math hops of -6 until I got to zero. I made 3 hops so that's 3 days.

   Possible number sentences: $18 \div 6 = 3$ days,
   $18 - 6 - 6 - 6 = 0$, $6 + 6 + 6 = 18$,
   $6 \times \underline{3} = 18$

3. 3 apples. Possible strategy: I drew 9 apples and circled 3 apples for each monkey. My answer is 3 apples.

   Possible number sentences: $9 \div 3 = 3$ apples,
   $9 - 3 - 3 - 3 = 0$, $3 + 3 + 3 = 9$, or
   $3 \times \underline{3} = 9$

4. 7 monkeys. Possible strategy: I drew 21 bags and circled 3 bags for each monkey. I made 7 circles.

   Possible number sentences:
   $21 \div 3 = 7$ monkeys,
   $21 - 3 - 3 - 3 - 3 - 3 - 3 - 3 = 0$,
   $3 \times \underline{7} = 21$, $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$

5. 4 bunches of carrots. Possible strategy: I took 16 connecting cubes. I gave 1 to each of the 4 goats. I kept giving each goat 1 until I ran out of cubes. Each goat will get 4 bunches of carrots.

   Possible number sentences: $16 \div 4 = 4$ bunches of carrots per goat, $16 - 4 - 4 - 4 - 4 = 0$,
   $4 \times \underline{4} = 16$, $4 + 4 + 4 + 4 = 16$

Name _____ Date _____

Zoo Kitchen Problems

Solve each problem and write a number sentence. Show or tell how you solved each problem. Remember to label your answers.

1. There were some heads of lettuce in a box in the zoo kitchen. The zookeeper gave all the lettuce to 4 rabbits. If she gave 2 heads of lettuce to each rabbit, how many heads of lettuce were in the box?

   Number sentence _____

2. Emily has 18 bales of hay. Each day she needs 6 bales of hay for the horses. How many days will the hay last?

   Number sentence _____

Share Zoo Lunches   SAB · Grade 2 · Unit 12 · Lesson 5   **627**

Student Activity Book - Page 627

Name _____ Date _____

3. Darius has 9 apples that he wants the monkeys to share fairly. There are 3 monkeys in the cage. How many apples will each monkey get?

   Number sentence _____

4. There is a shipment of 21 bags of kale. The zookeeper gives them to some monkeys. If each monkey gets 3 bags of kale, how many monkeys are there?

   Number sentence _____

5. Another shipment has 16 bunches of carrots. The zookeeper gives each of the 4 goats some carrots. If he shares the carrots equally between the goats, how many will each goat get?

   Number sentence _____

628   SAB · Grade 2 · Unit 12 · Lesson 5   Share Zoo Lunches

Student Activity Book - Page 628

Sharing Problems

1. The zookeeper needs to share 16 carrots equally with 4 apes. How many carrots will each ape receive?

2. The zookeeper has 15 apples and plans to give 5 apples to each toucan, a very colorful bird. How many toucans will get apples?

3. The zookeeper feeds the lions 3 pounds of meat each day. How much meat do the lions eat in 5 days?

4. The lions eat 3 pounds of meat each day. The zoo has 15 pounds of meat. How many days can the zookeeper feed the lions?

5. One day the zookeeper brought 18 carrots to share equally with the 4 apes. How many carrots will each ape get?

6. A class of 18 students is going on a field trip to the zoo. There are 4 adults who will drive the students. How many students should go in each van?

Master

TG · Grade 2 · Unit 12 · Lesson 5

Teacher Guide

Teacher Guide

Sharing Problems (TG)
Questions 1–6

1.* 4 carrots
2.* 3 toucans
3.* 15 pounds
4.* 5 days
5.* 4 carrots, 2 leftovers
6.* 2 vans with 5 students, 2 vans with 4 students

Name _____ Date _____

Share Equally

Homework

Dear Family Member:
In our study of division, your child has been learning to use various strategies and tools to solve fair share problems. For example, students use number lines, drawings and connecting cubes.
Thank you.

Solve these problems. Show or tell how you solved the problem. Remember to label your answer.

1. Kim has 21 dog treats and 7 new puppies. Kim shares the dog treats fairly among her puppies. How many will each puppy get?

2. There are 18 stickers. Share them equally among three children. How many will each child get?

3. There are 30 bales of hay and 5 elephants. Share the hay equally. How many bales of hay will each elephant get?

4. There are 15 dirty windows in the bird house and 3 cleaning men. They each clean the same number of windows. How many windows will each man clean?

TG · Grade 2 · Unit 12 · Lesson 5

Homework Master

Teacher Guide

Share Equally (TG)
Homework
Questions 1–4

Strategies may vary. Possible responses are given.

1. 3 dog treats. Possible strategy: I drew a picture of 7 dogs. I kept giving 1 treat to each dog until I ran out of treats. Each dog got 3 treats.

2. 6 stickers. Possible strategy: I used repeated subtraction. I kept taking 3 away until I got to zero. Each child got 6 stickers.

3. 6 bales of hay. Possible strategy: Through trial and error, I tried to give each elephant 3 bales of hay, but I had 15 left. Then I gave each elephant 2 more and I had 5 left, so I knew I could give each elephant one more. Each elephant got 6 bales of hay.

4. 5 windows. I took 15 counters and put them into 3 piles. First, I put one counter in each pile and then I kept dealing them out until I had no more left. My answer is 5 windows.

*Answers and/or discussion are included in the lesson.