

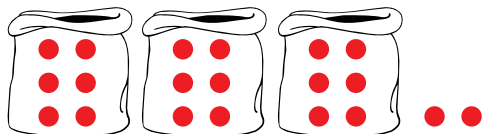
Homework & Practice 5-4

Interpret Remainders

Another Look!

Jamal has 20 marbles to put into bags. He plans to put 6 marbles in each bag. How many bags will Jamal be able to fill?

Find $20 \div 6$.



The remainder is the number left after the division is complete. Remember, the remainder should be less than the divisor.



Jamal can fill 3 bags with 6 marbles. There will be 2 marbles left over.

There are 3 ways to interpret a remainder.

The remainder can be ignored.

How many bags did Jamal fill?

3 bags

The remainder can be the answer.

How many marbles are not in the bags?

2 marbles

You need to add 1 to the quotient.

How many bags are needed for all of the marbles to be in bags?

4 bags

For **1–4**, find the number of equal groups and the number left over.

1. $66 \div 5 =$ ___ with ___ left over

2. $94 \div 6 =$ ___ with ___ left over

3. $29 \div 9 =$ ___ with ___ left over

4. $46 \div 8 =$ ___ with ___ left over

For **5–6**, divide. Then interpret the remainder.

5. 77 apples

3 apples in each bag

$77 \div 3 =$ ___ with ___ left over

How many apples are not in bags? _____

6. 71 cards

5 cards in each box

$71 \div 5 =$ ___ with ___ left over

How many boxes are needed for all the cards? _____

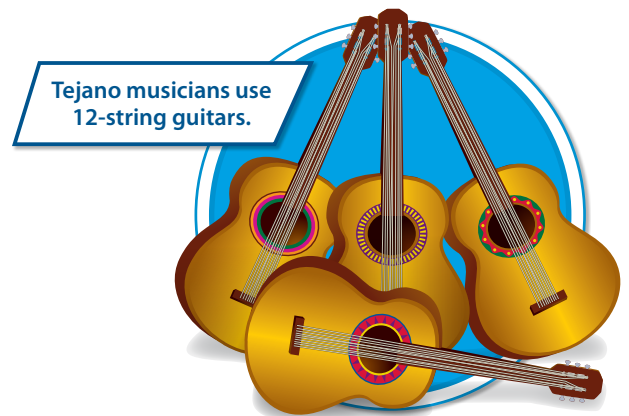
7. Why should the remainder be less than the divisor?

8. There are 25 students in Ms. Morris's class. She wants to divide the class into 3, 4, or 5 equal teams with all students on a team. Which number of teams can Ms. Morris make? Explain.

9. Tammy decorated her art project with 12 different colors of sequins. If she used 15 of each color, how many sequins did Tammy use?

10. **Number Sense** There are 14 girls trying out for volleyball. Each team will have 6 players. How many full teams will be made? How many girls will not make a team?

11. **MP.4 Model with Math** How many strings are used to make 4 guitars like the ones in the picture? Draw a bar diagram to show how you found your answer.



12. There are 26 students in Dante's class. One student is out sick today. The students want to split into teams of six for a game. How many full teams can they make?

13. **Higher Order Thinking** Carl has 98 pictures to put in an album. He can put 8 pictures on each page. How many pictures will Carl put on the last page? Explain.

Common Core Assessment

14. Jada bought an art kit with 58 colored pencils. She and her 3 sisters will share the pencils equally. How many pencils will each person receive? Will there be any pencils left over? If so, how many?