



For each number story: **Sample pictures and number models are given.**

- Draw a picture.
- Write a number model with a letter for the unknown.
- Use a division algorithm to solve the problem.
- Decide what to do about the remainder.
- Record the answer and write a number model with answer.

1 Jackson is buying balloons for a party. Balloons cost \$6 per bunch. How many bunches can he buy with \$75?

Picture:



Number model with unknown:

$$75 \div 6 = b$$

Answer: 12 bunches

Number model with answer:

$$75 \div 6 \rightarrow 12 \text{ R}3$$

What did you do about the remainder?
Circle the answer.

A. Ignored it

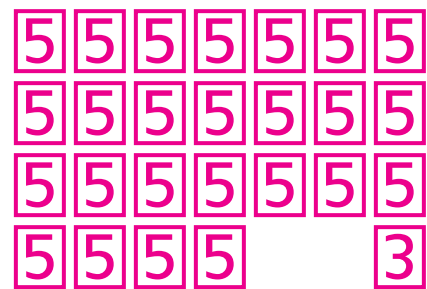
B. Reported it as a fraction

C. Rounded the answer up

Why? Sample answer: The three dollars left isn't enough to buy another bunch.

2 Rosa is buying boxes to hold all 128 of her DVDs. Each box holds 5 DVDs. How many boxes are needed to store all of her DVDs?

Picture:



Number model with unknown:

$$128 \div 5 = b$$

Answer: 26 boxes

Number model with answer:

$$128 \div 5 \rightarrow 25 \text{ R}3$$

What did you do about the remainder?
Circle the answer.

A. Ignored it

B. Reported it as a fraction

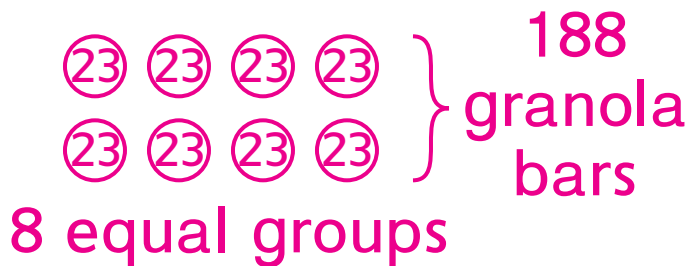
C. Rounded the answer up

Why? Sample answer: An additional box was needed to store the remaining 3 DVDs.

- 3 Lateefah won 188 granola bars in a raffle. She decided to share them equally with 7 of her classmates and herself. How many granola bars did each person receive?

Picture:

Sample picture:



Number model with unknown:

$$188 \div 8 = c$$

Answer: $23\frac{4}{8}$, or $23\frac{1}{2}$ granola bars

Number model with answer:

$$188 \div 8 \rightarrow 23 \text{ R}4$$

What did you do about the remainder?
Circle the answer.

A. Ignored it

B. Reported it as a fraction

C. Rounded the answer up

Why? Sample answer: The remaining 4 granola bars can be cut into halves and shared evenly among the 8 people.

- 4 a. The cafeteria manager wants to put milk cartons into crates that hold 8 cartons of milk each. She has 71 cartons of milk.

How many crates will she need? 9

- b. Rylee solved this problem and said the cafeteria manager needed 8 crates. Is this correct? Explain your thinking.

Sample answer: No, she needed 9 crates since she had a remainder of 7 and she couldn't ignore the extra milk cartons.

Solve each division problem using the partial-quotients algorithm. Then rewrite the remainder as a fraction.

5 $\frac{13 \text{ R}1}{2 \overline{)27}}$

$13\frac{1}{2}$

6 $\frac{11 \text{ R}3}{4 \overline{)47}}$

$11\frac{3}{4}$