Pictures and Stories: Extra Practice

Factored shows the groups. Expanded shows the pieces. Same total, different story. The simplest form is not always the most useful one.

Name: _____ Date: _____

1. Two rectangles are both h tall. One is 4 wide and one is 5 wide. Write the total area as one term. What does the coefficient tell you?

2. Six friends each buy a ticket for t dollars and a 2 dollar snack. The total is 6t + 12. What does the 12 mean?

3. A rectangle is w feet wide and 8 feet long. Its perimeter is 2w + 16. Write it in factored form. What does the part in parentheses mean?

4. 25 students each pay x dollars for a shirt and 3 dollars for a hat. Write the total two ways.

5. Sam reads r pages a day for 4 days, then 7 more pages: 4r + 7. Can it be factored with a GCF bigger than 1?

6 Which form of 3(n + 4) = 3n + 12 shows three equal groups?

7 A garden has two square beds, each s feet on a side, and a path. The total fenced length is 4s + 4s + 10. Write it as one expression with a factored part.

8 Jo says 5(x + 2) is better than 5x + 10 because it is shorter. Is shorter always better?