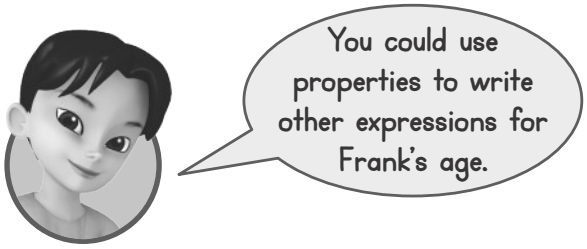
Name _____

Practice Video Tools Games

Additional Practice 13-2
Write Numerical Expressions

Another Look!

Cole is $11\frac{1}{2}$ years old. Uncle Frank is 4 times as old as Cole. Write an expression to show how you could calculate Uncle Frank's age in 6 years.



Uncle Frank's current age:

$4 \times 11\frac{1}{2}$

Uncle Frank's age in 6 years:

$\left(4 \times 11\frac{1}{2}\right) + 6$

The expression $\left(4 \times 11\frac{1}{2}\right) + 6$ shows the calculations that will determine Uncle Frank's age in 6 years.

In **1–7**, write a numerical expression for each calculation.

1. Multiply 16, 3, and 29, and then subtract 17.

2. Add 13.2 and 0.9, and then divide by 0.6.

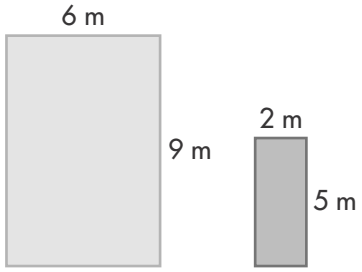
3. Subtract $12\frac{1}{2}$ from the product of $\frac{9}{10}$ and 180.

4. Add the quotient of 120 and 60 to the quotient of 72 and 9.

5. Multiply 71 by 8, and then add 379.

6. Find 3 times the difference of 7.25 and 4.5.

7. Write an expression to show the calculations you could use to determine how much greater the area of the larger rectangle is than the area of the smaller rectangle.



8. Model with Math Lola uses 44 beads to make a bracelet and 96 beads to make a necklace. Write an expression to show how you could calculate the total number of beads Lola used to make 13 bracelets and 8 necklaces.

9. Bart works 36 hours a week and makes $612. Charles works 34 hours a week and makes $663. Who makes more per hour? How do you know?

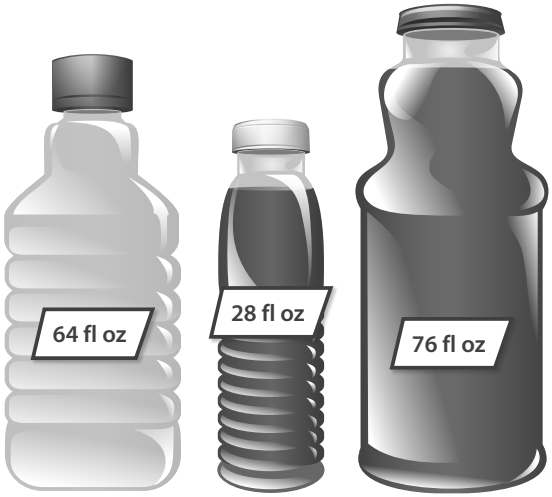
10. Use a property to write an equivalent expression for $12 \times (100 - 5)$. Which property did you use?

11. Doreen solved the following problem:

$\frac{1}{6} \div 5 = \frac{1}{30}$

Show how to use multiplication to check Doreen's answer.

12. Higher Order Thinking Stephen is combining all of the juice shown to make fruit punch. Does the expression $(64 + 28 + 76) \div 6$ show how you could calculate the number of $\frac{3}{4}$-cup servings? Explain.



Assessment Practice

13. Which expression represents the following calculation?

Divide 688 by 32, and then add 16.

Ⓐ $(688 \div 32) + 16$

Ⓑ $688 + (32 \div 16)$

Ⓒ $(688 + 32) \div 16$

Ⓓ $688 \div (32 + 16)$

14. Which is the first step in evaluating the expression?

$(25 - 9) \div 8 \times 3$

Ⓐ Multiply 8 and 3

Ⓑ Subtract 25 and 9

Ⓒ Divide 9 by 8

Ⓓ Multiply 9 and 3