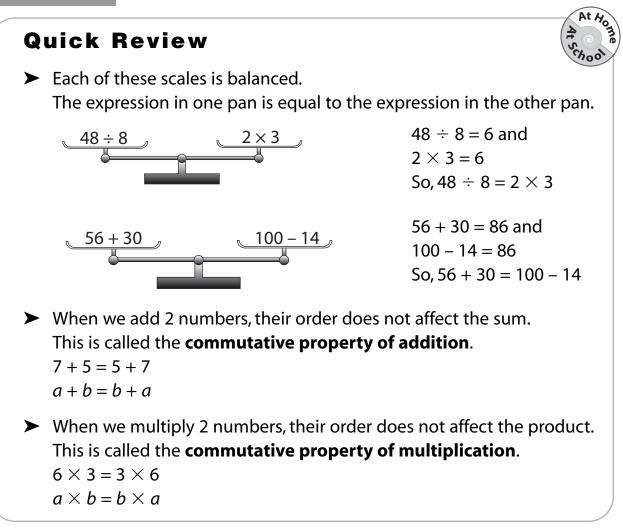
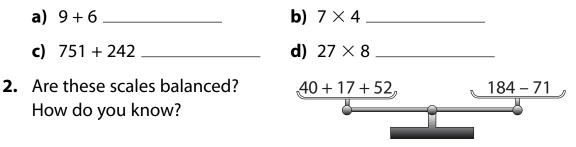


## **Understanding Equality**



## Try These

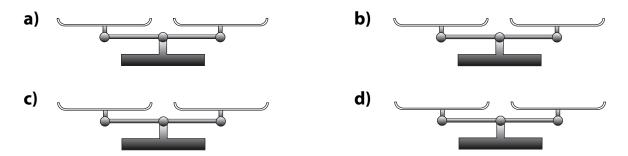
1. Rewrite each expression using a commutative property.



**Practice** 

**1.** Work with a partner.

Write an expression in one pan of a balance scale. Your partner writes a different expression to balance the scale. Continue with each balance scale. Switch roles at each turn.



2. Draw a line to join pairs of expressions that balance.

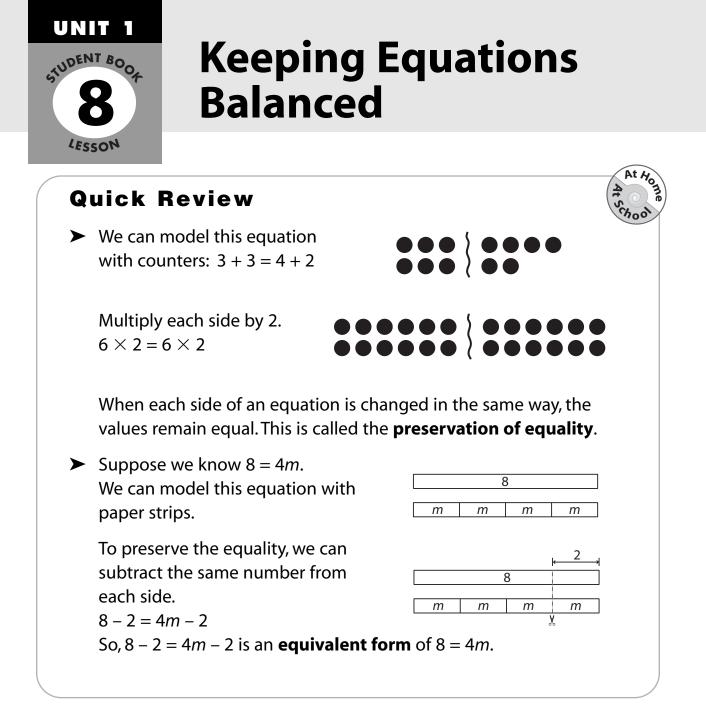
a)	Express	ions	b)	Express	sions
	8 × 9	$2 \times 53$		764 – 320	4000 – 48
	522 ÷ 9	24 + 76		76 × 52	18 ÷ 3
	75 + 31	314 – 242		36 ÷ 6	5 × 25
	10 × 10	29 × 2		52 + 73	4 × 111

## Stretch Your Thinking

Write 3 equal expressions for each expression below.

a) 57 + 46 - 31 b)  $45 \times 2 + 17$  c)  $425 \div 5 + 36$ 

. . . . . . . . . . .



## **Try These**

**1.** Model each equation with counters. Use counters to model the preservation of equality. Record your work.

**a)** 
$$3 + 2 = 1 + 4$$
 **b)**  $18 \div 3 = 3 \times 2$ 

	b)
Use subtraction to preserve the	equality of each equation in question
a)	b)
<b>a)</b> Write an equation for each di	iagram.
i) 2	<b>ii)</b> 4
n n n n	УУУ
<ul> <li>b) Use multiplication to preserv Record your work.</li> </ul>	e the equality of each equation.

a) 5y = 20b)  $20 \div 5 = 8 - 4$ c)  $8 \times 6 = 12 \times 4$ d) 5 + 19 = 6s