# Unit 6 Lesson 22: Combining Like Terms (Part 3)

## 1 Are They Equal? (Warm up)

#### Student Task Statement

Select **all** expressions that are equal to 8 - 12 - (6 + 4).

- 1. 8 6 12 + 4 2. 8 - 12 - 6 - 4 3. 8 - 12 + (6 + 4)
- 4.8 12 6 + 4
- 5. 8 4 12 6

## 2 X's and Y's

### Student Task Statement

Match each expression in column A with an equivalent expression from column B. Be prepared to explain your reasoning.

#### Α

В

1. $(9x + 5y) + (3x + 7y)$	1. $12(x + y)$
2. $(9x + 5y) - (3x + 7y)$	2. $12(x - y)$
3. $(9x + 5y) - (3x - 7y)$	3. $6(x - 2y)$
4. $9x - 7y + 3x + 5y$	4. $9x + 5y + 3x - 7y$
5. $9x - 7y + 3x - 5y$	5. $9x + 5y - 3x + 7y$
6. $9x - 7y - 3x - 5y$	6. $9x - 3x + 5y - 7y$

# **3 Seeing Structure and Factoring**

### Student Task Statement

Write each expression with fewer terms. Show or explain your reasoning.

1.  $3 \cdot 15 + 4 \cdot 15 - 5 \cdot 15$ 2. 3x + 4x - 5x3. 3(x - 2) + 4(x - 2) - 5(x - 2)4.  $3\left(\frac{5}{2}x + 6\frac{1}{2}\right) + 4\left(\frac{5}{2}x + 6\frac{1}{2}\right) - 5\left(\frac{5}{2}x + 6\frac{1}{2}\right)$