Match the Expression

● Check Understanding

No; Possible explanation:

$-12(a + 2)$

$-12a - 24$

$-4(5a - 10) + 4(2a - 4)$

$-20a + 40 + 8a - 16$

$-12a + 24$

$-12a - 24 \neq -12a + 24$

ACTIVITY ANSWERS

A: $6 - 7a$

B: $-4(a - 4) + 3a$

C: $-3(4a + 1 - 6a - 2) - 1$

D: $-2a - 6$

E: $2a - 6$

F: $11 - 2a$

G: $-2a + 1$

H: $6a - 3$

I: $4(a + 2) - 6a$

●● Check Understanding

No; Possible explanation:

$-14(a + 2) = -14a - 28$

$-1.4(5a - 10) - \frac{1}{2}(14a - 28)$

$-7a + 14 - 7a + 14$

$-14a + 28$

$-14(a - 2)$

$-14(a - 2) \neq -14(a + 2)$

ACTIVITY ANSWERS

A: $-1.5a + 0.75$

B: $3 - 4a$

C: $\frac{1}{4}(-4a - 16 + 12a - 8)$

D: $-2a - 6$

E: $-2a + 1$

F: $2 - 3a$

G: $-\frac{1}{2}(a - 4)$

H: $2a - 1$

I: $-12\left(\frac{1}{4}a + \frac{1}{3} - 0.75a - \frac{1}{2}\right)$

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Match the Expression *continued*

●●● Check Understanding

No; Possible explanation:

$-1.4(5a - 10) - \frac{1}{2}(14b - 28)$

$-7a + 14 - 7b + 14$

$-7a - 7b + 28$

$-7(a + b - 4)$

$-7(a + b) \neq -7(a + b - 4)$

ACTIVITY ANSWERS

A: $a(b + 9)$

B: $25 + \frac{3}{2}(-16a + 30) - 40$

C: $\frac{1}{2}(-8a - 14 + 2a + 18)$

D: $ab + 2a$

E: $2(3a + 1)$

F: $-2\left(\frac{3}{4} - \frac{1}{2}a\right)$

G: $-\frac{2}{5}(-3a + 14b + 8a - 29b)$

H: $-\frac{1}{2}(a - 4)$

I: $-4(a - 2b + 6)$

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Write and Solve Algebraic Equations

● Check Understanding

Possible equation: $3b + 2 = 8$; Each book weighs 2 pounds.

RECORDING SHEET

Variables and equations may vary.
Possible equations shown.

1. $4(n - 2) = 4$; \$3

2. $5w + 25 = 100$; 15 weeks

3. $5(t - 3) = 45$; \$12

4. $2w + 2(w + 5) = 38$; 7 meters

5. $8m + 200 = 600$; \$50

6. $5p + 5(p + 20) = 300$; \$20

7. $2(x + x + 1) = 50$; 13

8. $2(d + 40) = 200$; \$60

●● Check Understanding

Possible equation: $3b + \frac{3}{4} = 7\frac{7}{8}$; Each book weighs $2\frac{3}{8}$ pounds.

RECORDING SHEET

Variables and equations may vary.
Possible equations shown.

1. $8(n - 2) = 28$; \$5.50

2. $4w + 21 = 65$; 11 weeks

3. $2\ell + 2(\ell - 6) = 72$; 21 inches

4. $15m + 255 = 600$; \$23

5. $2.5(d + 45) = 250$; \$55

6. $6(s + s + 2.99) = 125.58$; \$8.97

7. $4(x + x + 2) = 40$; 6

8. $s + s + 6 = 68$; 31 students

●●● Check Understanding

Possible equation: $5u + 1\frac{3}{4} = 8\frac{5}{16}$; Each ukulele weighs $1\frac{5}{16}$ pounds.

RECORDING SHEET

Variables and equations may vary.
Possible equations shown.

1. $\frac{3}{8} + 2\frac{1}{4}b = 16\frac{1}{8}$; 7 books

2. $3m + 45 = 124.50$; \$26.50

3. $2(2x + 2) + 4x - 2 = 42$; 18 inches

4. $3m + 7.99 = 19.96$; \$3.99

5. $1.5(d + 35 + 45) = 322.50$; \$135

6. $4(s + s + 5.99) = 95.72$; \$14.96

7. $x + (x + 2) + (x + 4) = 42$; 16

8. $b + (b + 6) + (b - 7) = 74$; 25 students

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