Timester Challenge
Collecting Like Terms

Simplify

1) $a + a + a + a - a + a$

2) $3a + 7b + 5a + 2b$

Bronze

Simplify

1) $a^2 + a^2 + a^2$

2) Simplify $8a + 6 - 9 - 4a$

Circle the correct answer

$4a - 15$ $12a - 3$ $4a - 3$

a $12a - 15$

Silver

To fill in a block, the **sum** of the two blocks directly below it make the block.

Fill in the empty blocks giving your answers in the simplest form.

	$7a$	
$4a$		$-2a + b$

Gold

Simplify

1) $a \times a \times a \times a$

2) $a \times b \times a$

Bronze

To fill in a block, the **product** of the two blocks directly below it make the block.

Fill in the empty blocks giving your answers in the simplest form.

$3a$	$6b$	
a		$2b$

Silver

Mel says that $5a - (2a + 6) = 3a + 6$.

Is Mel correct? Give reason for your answer.

Correct ☐ Incorrect ☐

Gold

Timester Challenge

Collecting Like Terms

Answers

Simplify

1) $a + a + a + a - a + a$
$= 5a - a = 4a$

2) $3a + 7b + 5a + 2b$
$= 8a + 9b$

Bronze

Simplify

1) $a^2 + a^2 + a^2 = 3a^2$

2) Simplify $8a + 6 - 9 - 4a$
Circle the correct answer

$4a - 15$ $12a - 3$ $4a - 3$ a $12a - 15$

Silver

To fill in a block, the **sum** of the two blocks directly below it make the block.
Fill in the empty blocks giving your answers in the simplest form.

	$8a + b$	
	$7a$	$a + b$
$4a$	$3a$	$-2a + b$

Gold

Simplify

1) $a \times a \times a \times a = a^4$

2) $a \times b \times a = a^2b$

Bronze

To fill in a block, the **product** of the two blocks directly below it make the block.
Fill in the empty blocks giving your answers in the simplest form.

	$18ab$	
	$3a$	$6b$
a	3	$2b$

Silver

Mel says that $5a - (2a + 6) = 3a + 6$.
Is Mel correct? Give reason for your answer.

Correct ☐ Incorrect ☑

$5a - 2a - 6 = 3a - 6$

When expanding brackets by a negative with no numerical coefficient it is the same as multiplying by -1.

Gold