



Forming Expressions

I can draw and write algebraic expressions.



1. Draw representations of the expressions in these formulae.

$a + 12 = b$	$5a = b$	$24 + a = b$

2. Write the expressions to complete these formulae.

add 14 to a		= b
subtract 20 from a		= b
multiply a by 4		= b
12 more than a		= b

3. Find the value of **b** in these formulae if **a** = 15.

$a + 16 = b$	$b =$
$a - 7 = b$	$b =$
$6a = b$	$b =$
$a + 21 = b$	$b =$



Forming Expressions

I can draw and write algebraic expressions.



1. Draw representations of the expressions in these formulae.

$2a + 12 = b$	$3a + 10 = b$	$2(a + 5) = b$

2. Write the expressions to complete these formulae.

multiply a by 4 and add 20		= b
multiply a by 3 and subtract 5		= b
add 12 to a then multiply by 2		= b
find 3 less than a then multiply by 5		= b

3. Find the value of **b** in these formulae if **a** = 15.

$2a + 16 = b$	$b =$
$3a - 7 = b$	$b =$
$6(a + 10) = b$	$b =$
$3(a - 4) = b$	$b =$



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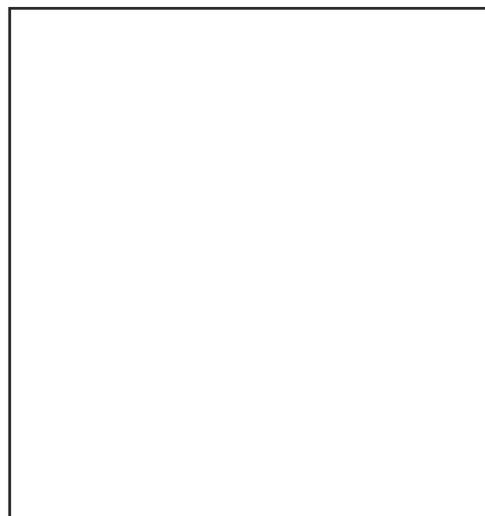
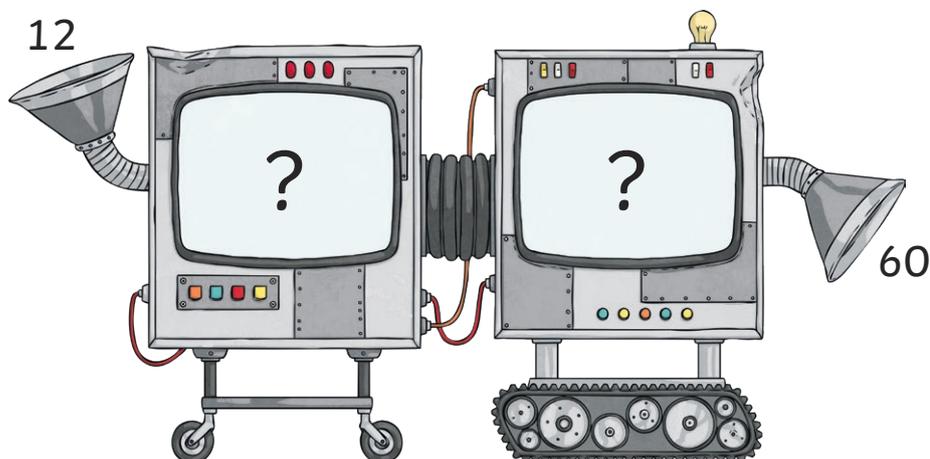
1. Write the expressions to complete these formulae.

multiply a by 5 and add 25		= b
multiply a by 4 and subtract 6		= b
add 10 to a and then multiply by 7		= b
3 less than a and then multiply by 8		= b

2. Find the value of **b** in these formulae if **a** = 36.

$3a + 22 = b$	$b =$
$4a - 8 = b$	$b =$
$8(a + 9) = b$	$b =$
$6(a - 2.5) = b$	$b =$

3. I input the number 12 into this function machine and the output is the number 60. What could the functions be? How many different possibilities can you find?





Forming Expressions Answers

1. Draw representations of the expressions in these formulae.

$a + 12 = b$	$5a = b$	$24 + a = b$
Multiple answers possible.	Multiple answers possible.	Multiple answers possible.

2. Write the expressions to complete these formulae.

add 14 to a	$a + 14$	$= b$
subtract 20 from a	$a - 20$	$= b$
multiply a by 4	$4a$	$= b$
12 more than a	$a + 12$	$= b$

3. Find the value of **b** in these formulae if **a** = 15.

$a + 16 = b$	$b = 31$
$a - 7 = b$	$b = 8$
$6a = b$	$b = 90$
$a + 21 = b$	$b = 36$



Forming Expressions Answers

1. Draw representations of the expressions in these formulae.

$2a + 12 = b$	$3a + 10 = b$	$2(a + 5) = b$
Multiple answers possible.	Multiple answers possible.	Multiple answers possible.

2. Write the expressions to complete these formulae.

multiply a by 4 and add 20	$4a + 20$	$= b$
multiply a by 3 and subtract 5	$3a - 5$	$= b$
add 12 to a then multiply by 2	$2(a + 12)$	$= b$
find 3 less than a then multiply by 5	$5(a - 3)$	$= b$

3. Find the value of **b** in these formulae if **a** = 15.

$2a + 16 = b$	$b = 46$
$3a - 7 = b$	$b = 38$
$6(a + 10) = b$	$b = 150$
$3(a - 4) = b$	$b = 33$



Forming Expressions Answers

1. Write the expressions to complete these formulae.

multiply a by 5 and add 25	$5a + 25$	= b
multiply a by 4 and subtract 6	$4a - 6$	= b
add 10 to a and then multiply by 7	$7(a + 10)$	= b
3 less than a and then multiply by 8	$8(a - 3)$	= b

2. Find the value of **b** in these formulae if **a** = 36.

$3a + 22 = b$	$b = 130$
$4a - 8 = b$	$b = 136$
$8(a + 9) = b$	$b = 360$
$6(a - 2.5) = b$	$b = 201$

3. I input the number 12 into this function machine and the output is the number 60.
What could the functions be? How many different possibilities can you find?

Multiple answers possible, including:

$$\times 4, + 12$$

$$+ 8, \times 3$$

$$+ 88, - 40$$