

# Writing Algebraic Expressions



Read the sentences and write algebraic expressions to describe them.

Example

Increase 15 by  $t$  squared

$$15 + t^2$$

1 The sum of  $g$  and 20

2 Decrease  $w$  by 29

3 Multiply 5 by  $d$

4 From 15 subtract  $u$

5 The sum of  $a$ ,  $b$  and  $c$

6 Raise 16 by  $r$  squared

7 Reduce  $b$  by 870

8 Subtract 38 from the sum of  $w$  and  $a$

9 Reduce the quotient of 20 and  $q$  by 8

10 From the product of  $m$  and 9 subtract 6



This time write a sentence that matches the algebraic expressions below

Use words like: squared, times, increase, decrease, raise, reduce, sum of, subtract, product, plus, divide, multiply, minus and add.

11  $2 \times m$

12  $k + 5 - d$

13  $a + 2 \times b^*$  \* order of operations

14  $854 \div 3 \times f$

15  $9 + h \times c$

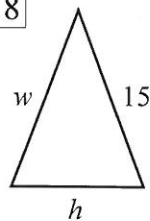
16  $a^2 + 25 - q$

17  $x^2 - 3 \times a$

Construct an algebraic expression for the perimeter of the shapes below.

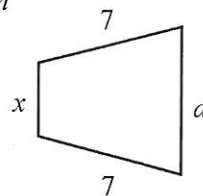


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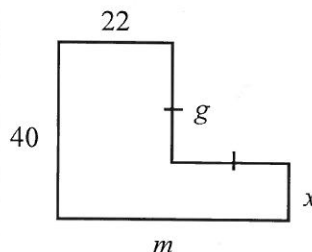


P =

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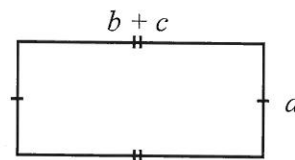


20



These two are harder

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