## Master Maths 8 Worksheet 22 Simplifying Algebraic Expressions



Name:

1.	Simp	lifv	the	follo	owing	alge	braic	expression	S

(a) x + x + x + x + x

(b) 
$$a + b + a + b + b + b + a$$

(b)  $a \times b$ 

(b) 
$$a + b + a + b + b + b + a$$

(a)  $3 \times 2 \times m$ 

(c) 
$$3m + 2m + 5m - 4m - m$$

(c)  $4 \times x \times 5 \times y$ 

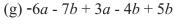
(d) 
$$5k - 7k + 3k - 4k$$

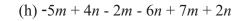
(d)  $6p \times 4q$ 

(e) 
$$-6c + 9c$$

(f) 
$$3x + 5y - x + 4y - 5x - 2y$$

(f)  $54d \div 9$ 





**5.** Write an expression for the area of this rectangle.

**4.** Simplify the following algebraic expressions.

3x

2y



## **2.** The cost of pumpkin was p dollars per kilogram.

(a) Find the cost of pumpkins that weigh the following:

(i) 3 kilograms

shape.

(ii) 8 kilograms



(b) What would it cost to buy these two pumpkins?

**3.** Write an expression for the perimeter of this

**6.** Sara is *n* years old. She is 5 years older than her sister Jodie and 3 years younger than her brother Brodie. Sara's mother is three times Sara's age.

Write expressions for their ages

Jodie

Brodie

Mother





Write an expression for the sum of all their ages (Sara, Jodie, Brodie and mother).

The sum of their ages is the same as Sara's grandmother who is 70 years old. How old is Sara?

