

Name: Class: 

# Adding Simple Polynomials

Adding  
Simple  
Polynomials

Adding  
Polynomials  
with Constants

1)  $(3x + 4x)$

Answer: 7x

2)  $(2y + 5y)$

Answer: \_\_\_\_\_

3)  $(6a + 3a)$

Answer: \_\_\_\_\_

5)  $(8x + 1x)$

Answer: \_\_\_\_\_

6)  $(4c + 5c)$

Answer: \_\_\_\_\_

7)  $(5m + 7m)$

Answer: \_\_\_\_\_

8)  $(4x + 5 + 2x)$

Answer: 6x + 5

9)  $(3y + 7 + 4y)$

Answer: \_\_\_\_\_

10)  $(5a + 2 + 6a)$

Answer: \_\_\_\_\_

11)  $(9b + 4 + 3b)$

Answer: \_\_\_\_\_

12)  $(7m + 3 + 6m)$

Answer: \_\_\_\_\_

13)  $(8x + 2 + 5x)$

Answer: \_\_\_\_\_

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## Match the polynomials

Match the polynomials on the left with their simplified forms on the right

1.  $(5x + 2x)$

2.  $(3y + 4y)$

3.  $(6b + 2b)$

4.  $(4x + 5x)$

5.  $(8y + 3y)$

6.  $(7x + 5x)$

7.  $(6b + 6b)$

8.  $(2x + 4x)$

9.  $(9y + 7y)$

10.  $(4y + 7y)$

11.  $(10x + 2x)$

12.  $(3x + 3x)$

a.  $6y$

b.  $10x$

c.  $12x$

d.  $7x$

e.  $9x$

f.  $11y$

g.  $16y$

h.  $12b$

i.  $8b$

j.  $6x$

k.  $16x$

l.  $8y$

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# Word Problems

## *Real-life Applications*

- 1 James has  $3x$  candies in one jar and  $5x$  candies in another jar. How many candies does James have altogether?
  - Answer: \_\_\_\_\_
- 2 Maria has  $2y$  pencils in her pencil case and  $7y$  pencils in her desk. How many pencils does she have in total?
  - Answer: \_\_\_\_\_
- 3 Carlos earns  $6a$  dollars per hour for one job and  $4a$  dollars per hour for another job. How much does he earn per hour from both jobs combined?
  - Answer: \_\_\_\_\_
- 4 Lily collects  $8b$  stickers from one store and  $5b$  stickers from another. How many stickers does she collect in total?
  - Answer: \_\_\_\_\_
- 5 Sarah has  $2x$  books on one shelf and  $6x$  books on another shelf. How many books does Sarah have altogether?
  - Answer: \_\_\_\_\_
- 6 John baked  $3x$  cookies in the morning and  $9x$  cookies in the afternoon. How many cookies did John bake in total?
  - Answer: \_\_\_\_\_