

## Interleaf 7

1) Solve for  $x$

a)  $x + 5 = 9$

b)  $4x = 9$

c)  $3x - 2 = 9$

2) Find 56% of 600

3) Simplify the following:

a)  $5x \times 3x$

b)  $7a - b - 4a + 3b$

c)  $3x - 7y + 5 + x - 2y$

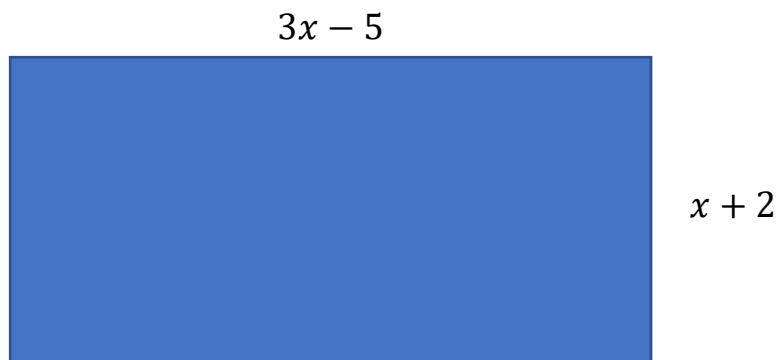
4) Evaluate

a)  $-2 + 9$

b)  $-4 + -7$

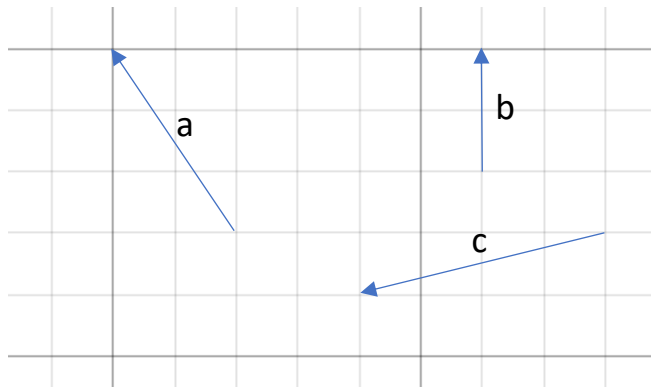
c)  $-12 - -3$

5a) Write down a simplified expression for the perimeter of the rectangle below

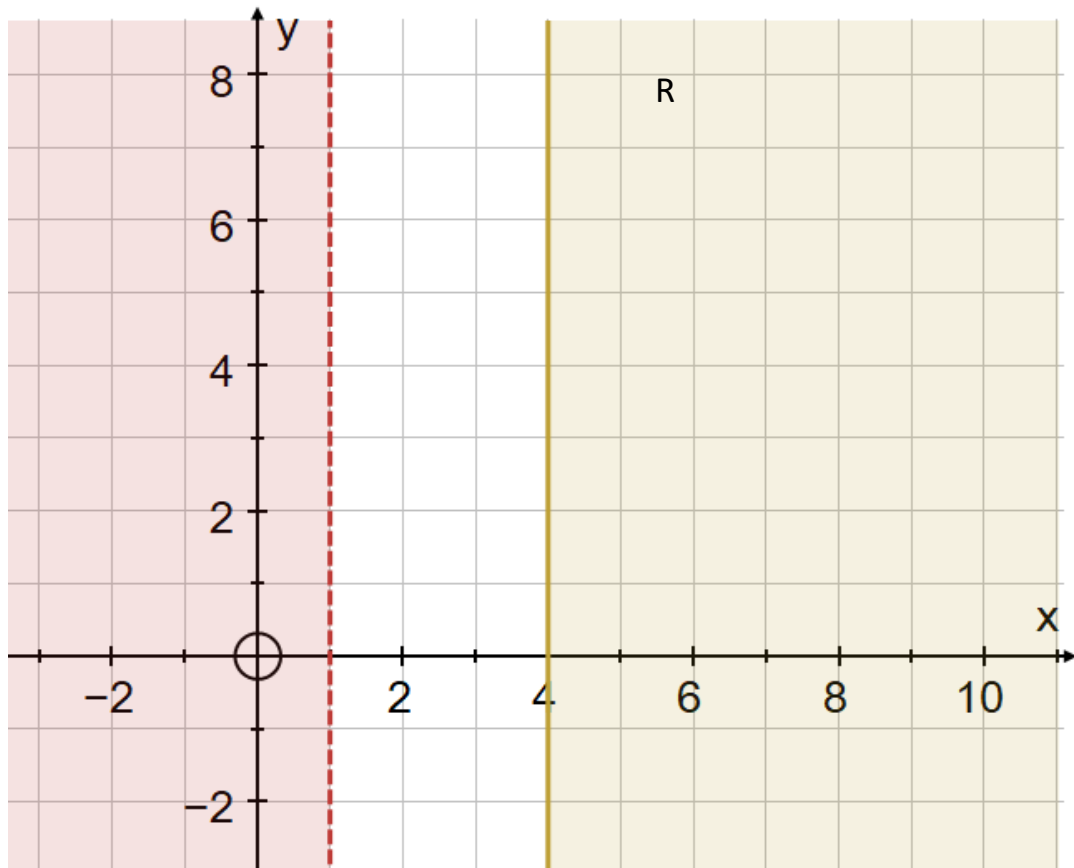


b) If the perimeter of the rectangle is actually 40cm, form an equation and solve it to find  $x$ .

6) Write down column vectors equivalent to those shown to the right.



7) Use inequalities to describe the unshaded region given below:



8) A pack of butter usually has a mass of 450g  
 A bigger pack advertises “ $\frac{2}{9}$  of a pack extra for free!!!”  
 Find the mass of the bigger pack.

Answers

- 1a) 4   b)  $\frac{9}{4}$    c)  $\frac{11}{3}$    2) 336   3a)  $15x^2$    b)  $3a - 4b$    c)  $4x + 5 - 9y$    4a) 7   b) -11   c) -9  
 5a)  $8x - 6$    b)  $\frac{23}{4}$    6a)  $\begin{pmatrix} -2 \\ 3 \end{pmatrix}$    b)  $\begin{pmatrix} 0 \\ 2 \end{pmatrix}$    c)  $\begin{pmatrix} -4 \\ -1 \end{pmatrix}$    7)  $1 < x \leq 4$    8) 550g