

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

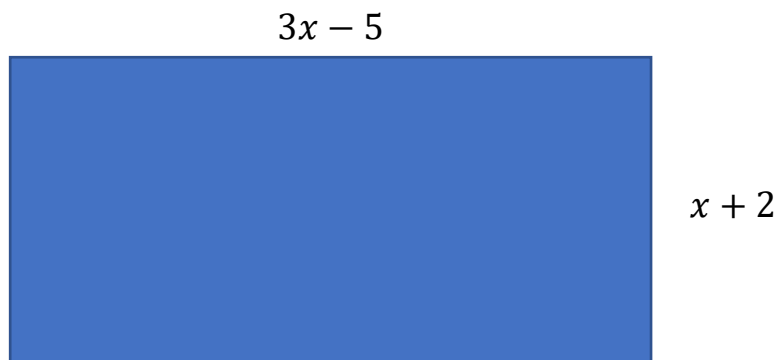
4) Evaluate

a) $-2 + 9$

b) $-4 + -7$

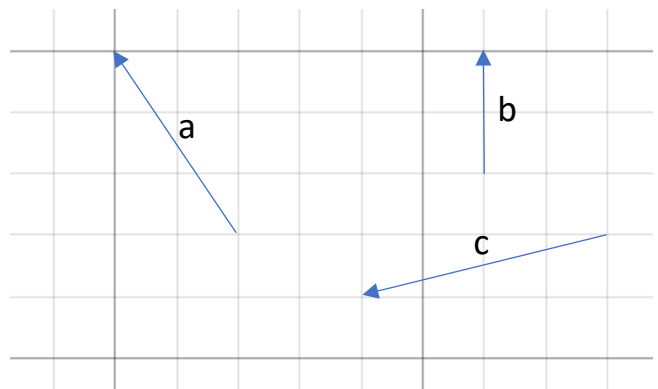
c) $-12 - -3$

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

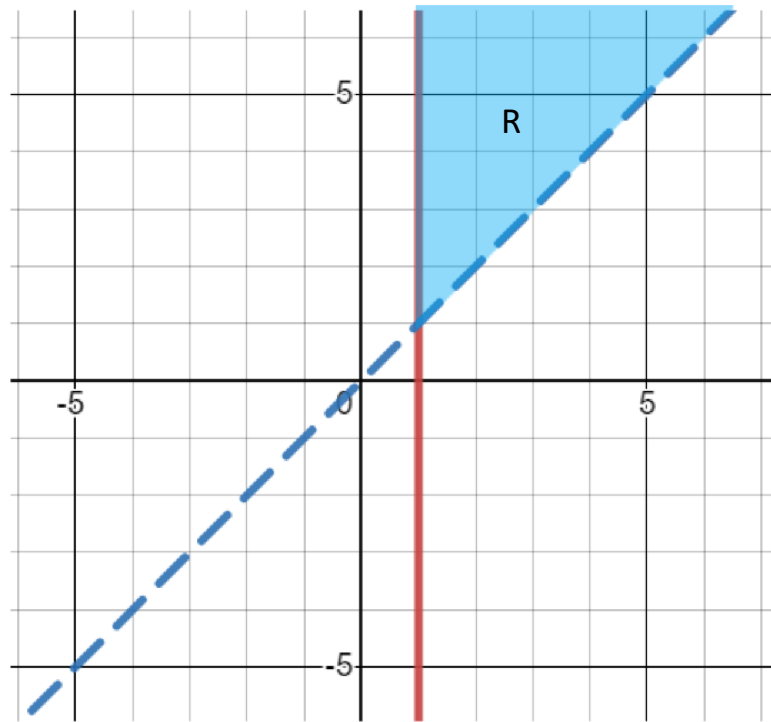


b) If the perimeter of the rectangle is actually 40cm, form an equation and solve it to find x .

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



7) Use inequalities to describe region R 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) $x \geq 1, y > x$ 8) 550g