

Do Now
Regents Questions

1) A system of equations is given below.

$$\begin{aligned}x + 2y &= 5 \\ 2x + y &= 4\end{aligned}$$

Which system of equations does *not* have the same solution?

(1) $3x + 6y = 15$ · 3
 $2x + y = 4$ · 1

(3) $x + 2y = 5$ · 1
 $6x + 3y = 12$ · 3

(2) $4x + 8y = 20$ · 4
 $2x + y = 4$ · 1

(4) $x + 2y = 5$ · 1
 $4x + 2y = 12$ · 2

2) Which pair of equations could *not* be used to solve the following equations for x and y ?

$$\begin{aligned}4x + 2y &= 22 \\ -2x + 2y &= -8\end{aligned}$$

(1) $4x + 2y = 22$ · 1
 $2x - 2y = 8$ · -1

(3) $12x + 6y = 66$ · 3
 $6x - 6y = 24$ · -3

(2) $4x + 2y = 22$ · 1
 $-4x + 4y = -16$ · 2

(4) $8x + 4y = 44$ · 2
 $-8x + 8y = -8$ · 4

★ What you are
multiplying by is
called the
Scale factor