

Mathematics

Solving linear simultaneous equations graphically

Equivalent Equations

Independent Task

Ms Jones



Try this

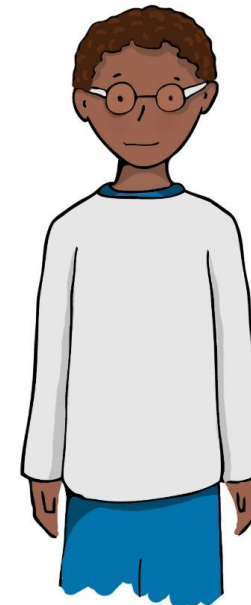
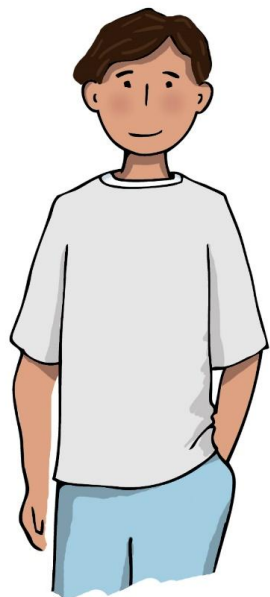
What's the same or different about the statements below?

I triple my number,
subtract 12 and get
11

I double my
number, subtract 12
and get 11

I multiply my
number by 6,
subtract 24 and
get 22

I quadruple my
number, subtract 24
and get 22



Independent task

1. Match the pairs of equivalent equations.

$$4x - 2 = 5$$

$$6x - 1 = 9$$

$$3x - 1 = 5$$

$$8x - 4 = 10$$

$$\frac{3x - 3}{2} = 9$$

$$3x - 1 = 16$$

2. Use the fact that $2.2x - 7.5 = \frac{8}{9}$ to work out the value of

a) $4.4x - 15$

b) $\frac{6.6x - 22.5}{2}$

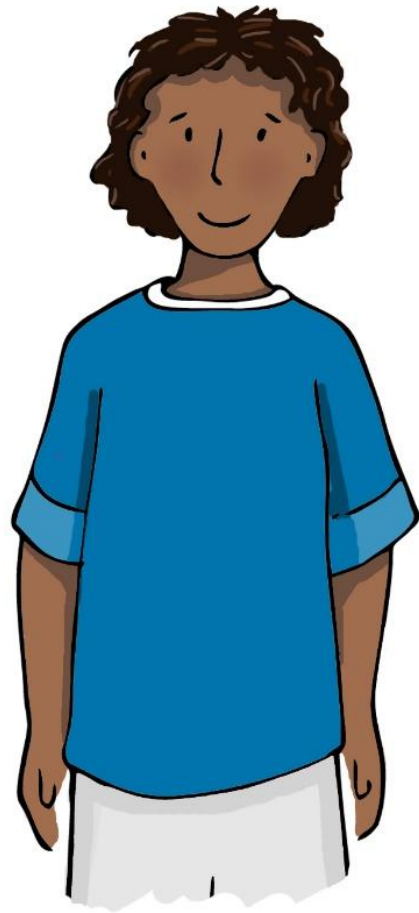
c) $\frac{6.6x - 22.5}{4} + \frac{2}{3}$



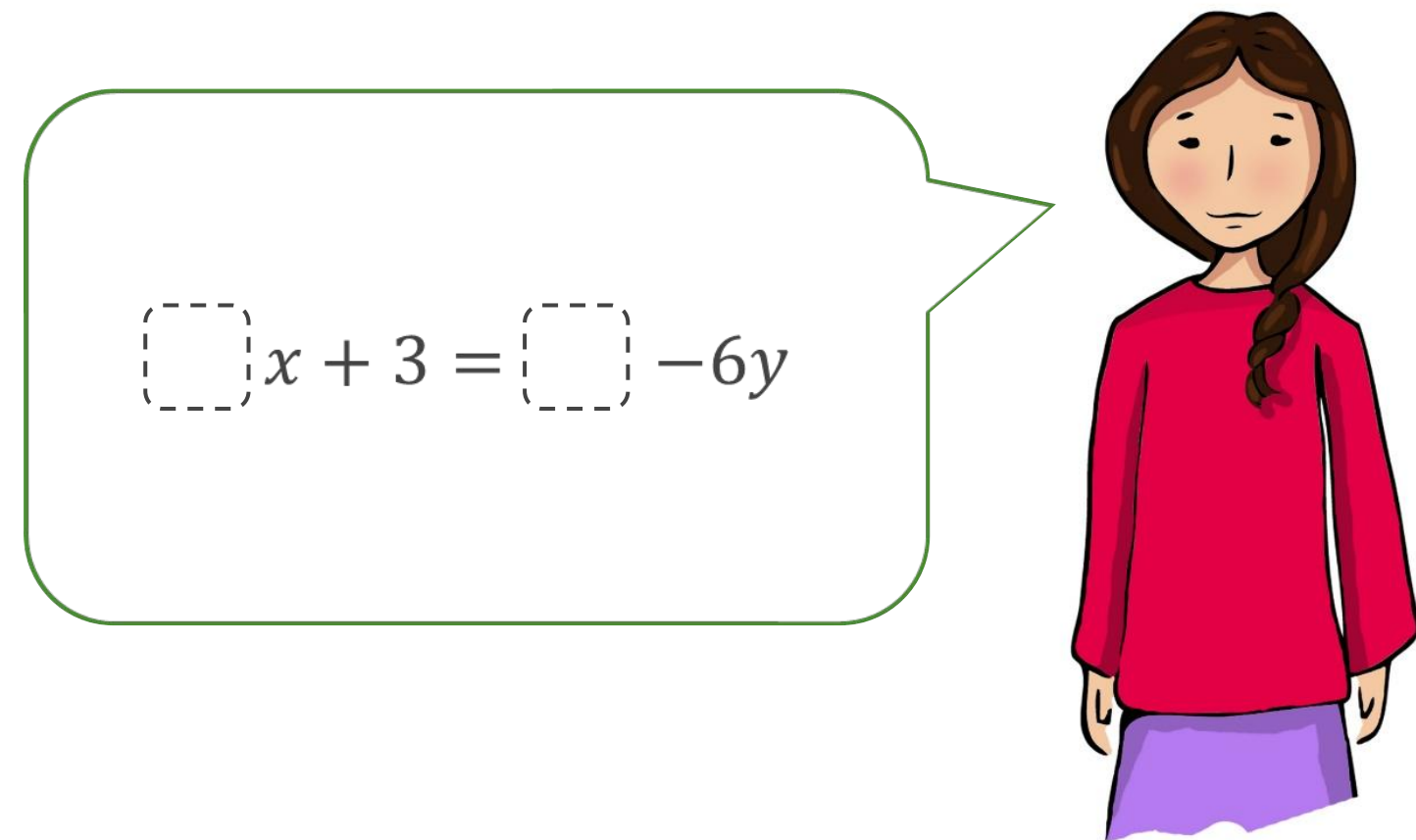
Explore

How many ways can you use the number cards to make Zaki and Binh have **equivalent equations**.

1 2 3 4 5 6



$$2x + \boxed{} = 4 - \boxed{}y$$



$$\boxed{}x + 3 = \boxed{} - 6y$$

