

Mathematics

Expressions, equations and inequalities

Exploring equality

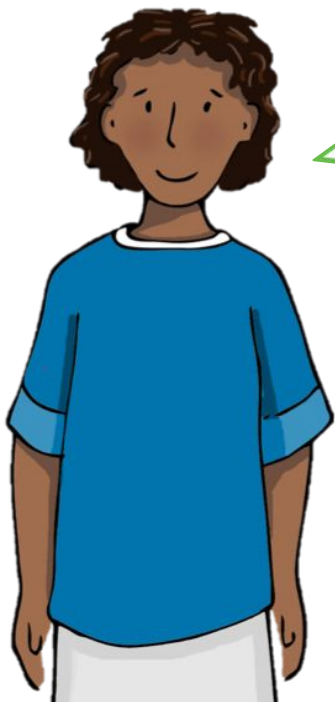
Independent Task

Ms Jones



Try this

- A Think of a number... multiply it by 2... add 4 ... divide by 2 ... finally subtract your original number.
- B Try this again with a different starting number. And again.
- C How could you improve this student's response?



$$8 \times 2 = 16 + 4 = 20 \div 2 = 10 - 8 = 2$$



Independent task

1. Decide if each of the following are true or false:

a) $4 - 2 = 2 + 3 = 5 \times 2 = 10$

b) $7 - 3 = 4 - 0 = 3 - (-1)$

c) $8 \div 2 = 4 + 9 = 13 \times 10 = 130$

2. Given that $2b = a$ complete the following:

a) $2b + 3 = a + \underline{\hspace{1cm}}$

b) $a + b = \underline{\hspace{1cm}}b$

c) $20b = \underline{\hspace{1cm}}a$

d) $2ba = \underline{\hspace{1cm}}^2$



Explore

Use the cards to form equations related to: $a = b$

$$\boxed{} = \boxed{}$$

$a + 2$

$a \div 2$

$b + 2$

$b \div 2$

$4b$

$0.5b$

$a + 3b$

b^2

ab

$4a$

a^2

b

a

