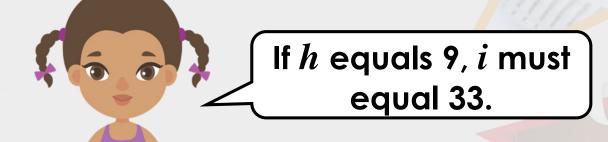
# Finding pairs of values – reasoning and problem solving

## Razia is finding possible values for h and i.



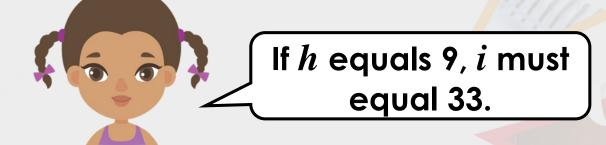


Is Razia correct? Explain your answer.



## Razia is finding possible values for h and i.





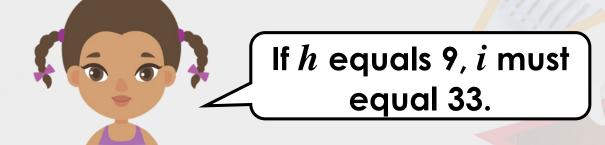
Is Razia correct? Explain your answer.

Razia is incorrect because...



## Razia is finding possible values for h and i.





Is Razia correct? Explain your answer.

Razia is incorrect because  $3 \times 9 = 27$  and 60 - 27 = 33.  $33 \div 11 = 3$  so i = 3.



If a is an odd number and b is 50, which of these could be true?

A. 2a + 3b = 156

C. 
$$4a + 5b = 258$$

D. 
$$2a \div 3b = 2$$

Convince me.



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A. 2a + 3b = 156

C. 
$$4a + 5b = 258$$

D. 
$$2a \div 3b = 2$$

Convince me.

A and B could be true. For example: A. a = 3; B. a = 77



Problem Solving 1

Sweety Treaty sell 2 medium sweet boxes and 4 small sweet boxes for £36. What possible prices can you find for each sweet box?

# 2m + 4s = £36

S



Problem Solving 1

Sweety Treaty sell 2 medium sweet boxes and 4 small sweet boxes for £36. What possible prices can you find for each sweet box?

## 2m + 4s = £36

т	S

Various answers, for example: m = 8, s = 5; m = 9, s = 4.5; m = 10, s = 4



# Star Challenge Time!

 Go to Maths – Algebra Part 4 and choose your star challenge. As usual, the first page will give you a challenge that is slightly easier than the introduction challenge, the second page will give you a challenge that is similar to the questions in the presentation and the third page will give you challenges that will stretch you further. You can