Prime and Square Numbers

What is a prime or a square number?

A PRIME number is a whole number greater than 1 that cannot be exactly divided by any whole number other than itself and 1 (e.g. 2, 3, 5, 7, 11).

A SQUARE number is the product of a number <u>multiplied</u> by itself, e.g. 1, 4, 9, 16.



Prime numbers

2 is a prime number.





Prime numbers

True

2 has exactly two factors.





A prime number has exactly two factors: 1 and itself.

A composite number has more than two factors.

Which of the numbers are prime and which are composite?



Focus 1:

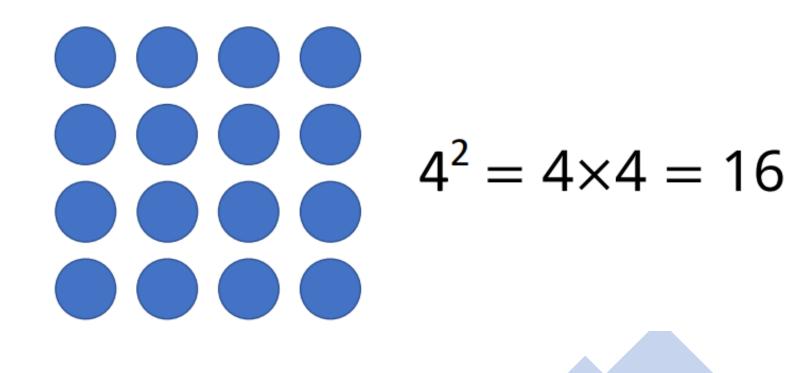


Square numbers

The array shows that 16 is not a square number.

False

16 can also be arranged in this array, so it is a square number.





Dani is thinking of a square number with two digits.

The digits add together to make another square number.

What could the number be?



Dr Trent is celebrating his birthday.

His age is a square number.

Last year, his age was a multiple of 12 Next year, his age will be a multiple of 10 How old is Dr Trent?

Dr Trent is 49 years old

48 Year before multiple of 12

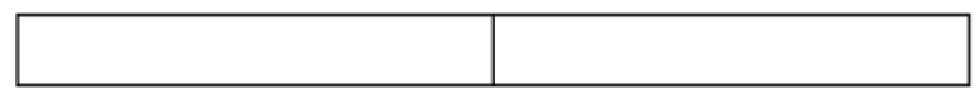
50 Multiple of 10

21/04/23 WALT: add fractions within 1

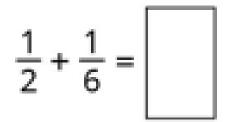
Complete the additions.

Use the bar models to help you.

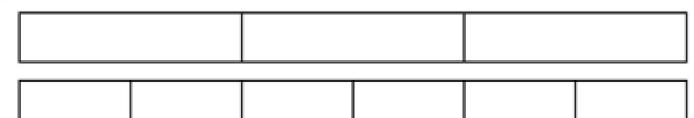
a)

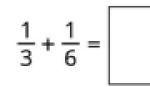


1			

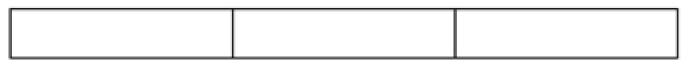


b)





C)

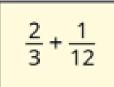


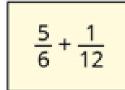
$$\frac{2}{3} + \frac{1}{6} =$$

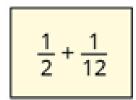


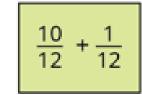
Match the additions that have the same answer.

$$\frac{3}{4} + \frac{1}{12}$$









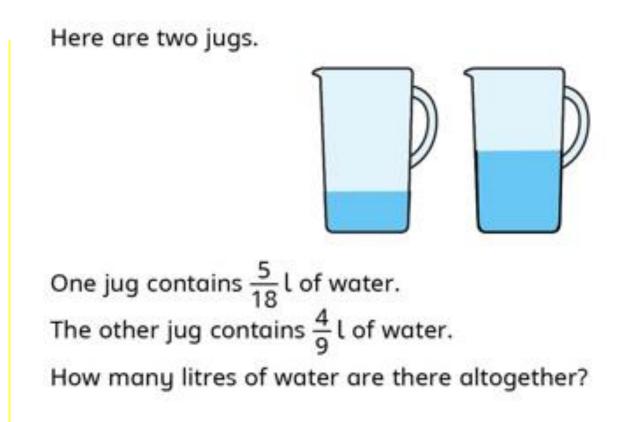
$$\frac{6}{12} + \frac{1}{12}$$

$$\frac{9}{12} + \frac{1}{12}$$

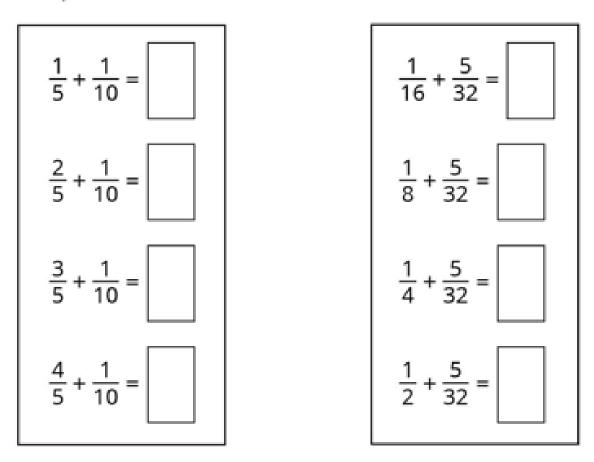
$$\frac{8}{12} + \frac{1}{12}$$







a) Complete the additions.

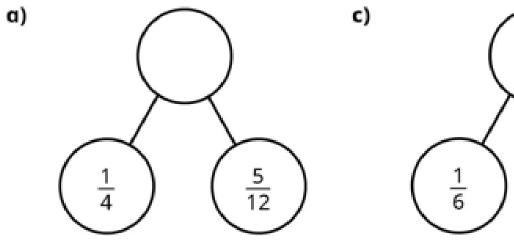


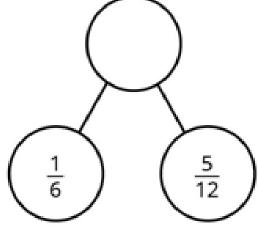
b) Can you spot any patterns? Talk to a partner about it.



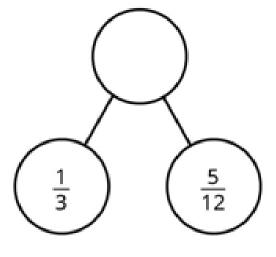


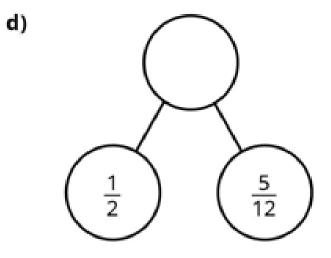
Complete the part-whole models.

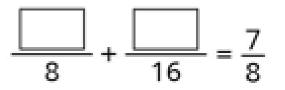




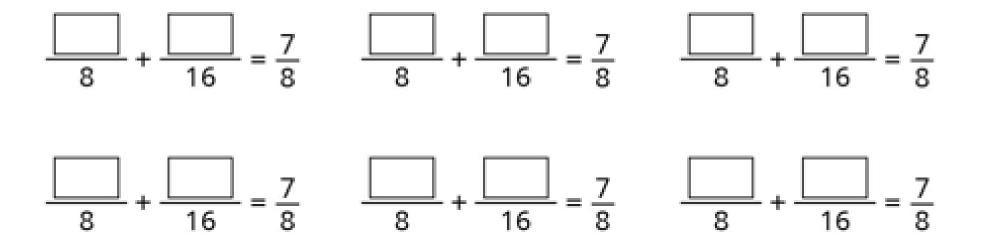
b)



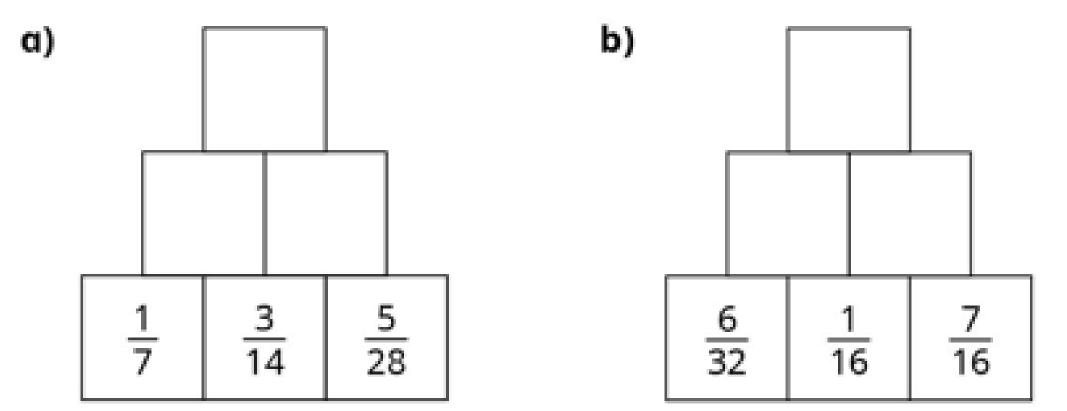




What could the missing numerators be? Give six different possibilities.

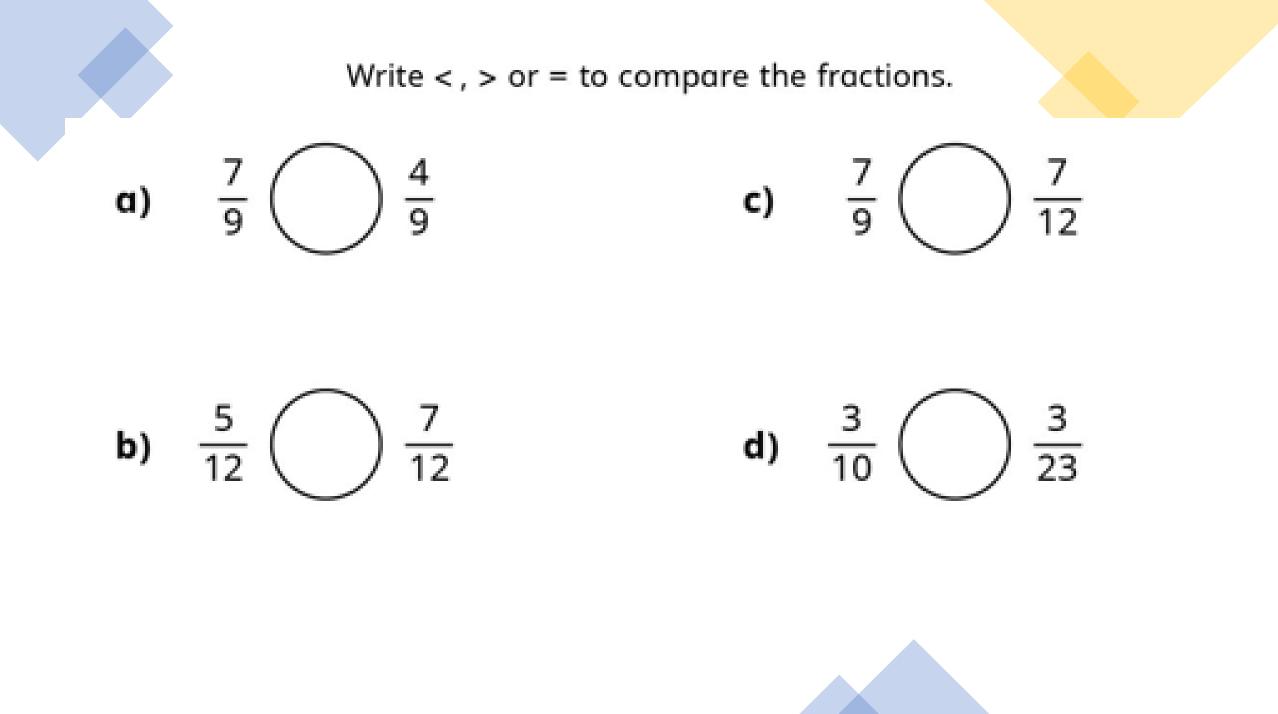


Complete the addition pyramids.



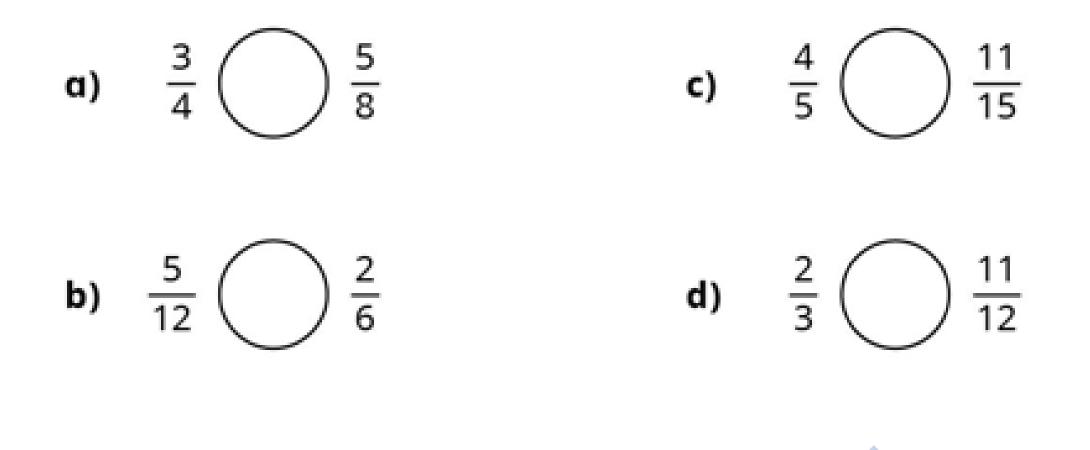


WALT: compare fractions less than 1





Write <, > or = to compare the fractions.



Esther and Scott have a bag of marbles. a) Esther takes $\frac{3}{8}$ of the marbles. Scott takes $\frac{3}{11}$ of the marbles. Who has more marbles?