Understand and use ratio notation

- Complete the sentences
- **a)** For every 3 boys in a class, there are 4 girls.

The ratio of boys to girls is The ratio of girls to boys is

b) For every 1 red counter in a bag, there are 5 blue counters. Draw a diagram to represent this statement.

The ratio of red to blue is The ratio of blue to red is

c) The ratio of adults to children in a room is 2:5



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			The ratio	of bl	ue to ora	nge is	;	
			The ratio of orange to blue is					
			For every		blue, th	ere a	re	
			For every		orange,	there	e are	
2		e)	\bigwedge					
			For every		triangle	s, the	re is	
			For every		square,	there	are	
			The ratio	of sq	uares to t	riang	les is	
			The ratio	of tri	angles to	squa	res is	
			The ratio	of gr	een shape	es to	yellow	
	2	For every 1 car, there are 4 tyres.						
		Ho	w many w	ays a	an you re	eprese	ent thi	





is?



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A chocolate cookie has white chocolate, milk chocolate and dark chocolate chips.



The ratio of white to milk to dark chocolate chips is 3:5:2

- a) Write the ratio of milk chocolate to white chocolate chips.
- **b)** Write the ratio of dark chocolate to white chocolate chips.
- c) Write the ratio of dark chocolate to milk chocolate chips.
- d) Teddy really likes dark chocolate.

Suggest a ratio he could use that would have more dark chocolate chips.



Write the ratio of x : y when:





Draw diagrams to represent each ratio.

What would happen to the ratio if you added 1 to both x and y? What would happen to the ratio if you doubled both *x* and *y*? Discuss with a partner.





a) In each case, write the ratio of the distance EF: FG.





b) In each case, write the ratio of the distance EF: EG.





- c) What do you notice about your answers to part a) and b)?
- d) If EF: FG is 4:1, how many ways can you arrange E, F and G on a line to show this?











