Lesson № 26

1 Little Joe and Foxy Tail are picking carrots from their vegetable garden. They have planted and successfully grown 900 carrots. Little Joe works hard and picks 60 carrots every day. Foxy Tail is sloppy but also stronger, so he picks 90 carrots a day.

a). How long would it take LJ to harvest all carrots on his own?

b). How long would it take FT to harvest all carrots on his own?

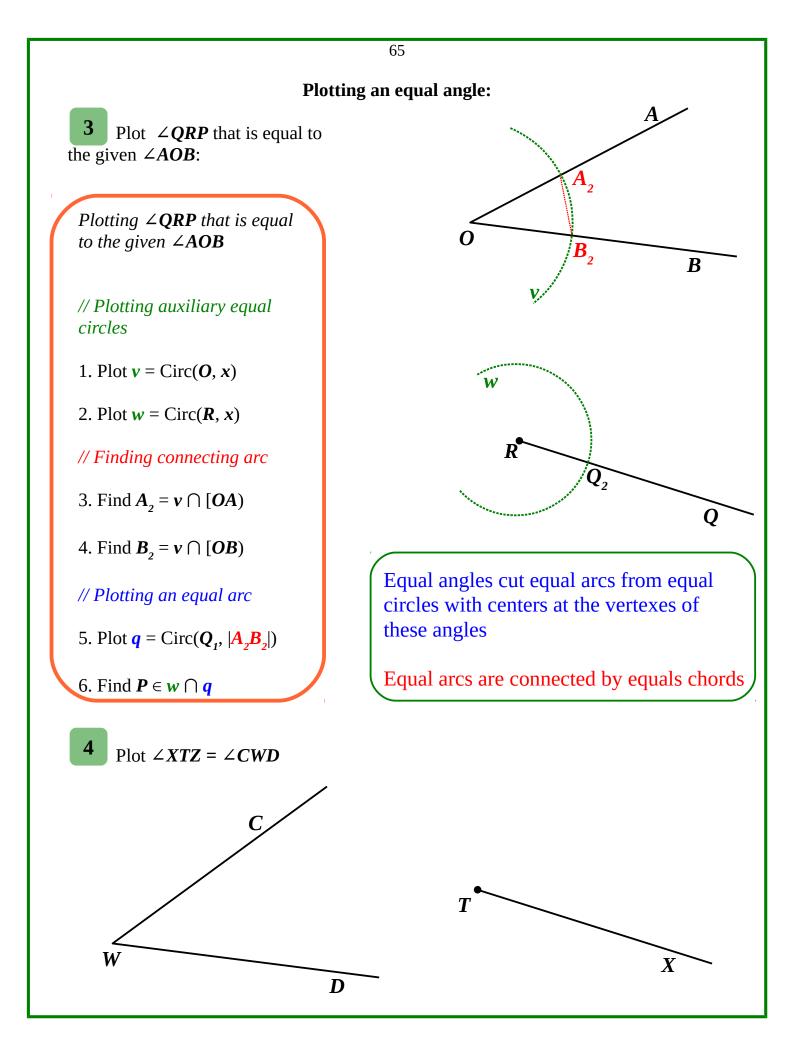
c). How many carrots can LJ and FT harvest together in one day?

d). How long would it take LJ and FT to harvest all carrots if they work together?

e). How many carrots would FT harvest if they work together?

2 Solve equations:	1	4	4	1	×	2	1	2	=	6			· ·	1	4	4	2	(×	1	1	2)	=	6	
equations:										_								_					/			
												/														✓



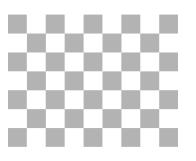




For example, a plane may be paved by squares or any parallelograms.

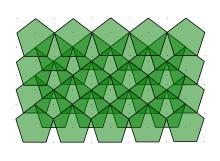
Tessellations:

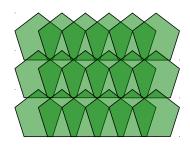
A coverage of a plane by identical shapes without overlaps is called a tessellation.





These tessellations look like they are made of pentagons; but these pentagons overlap. Which elements are actually used to makes these tessellations?

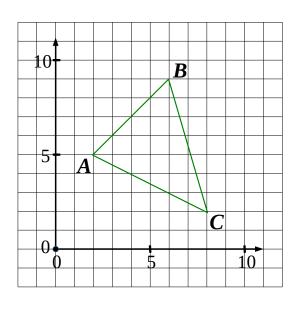


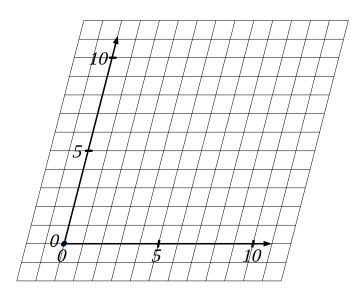


Coordinates are tessellations.

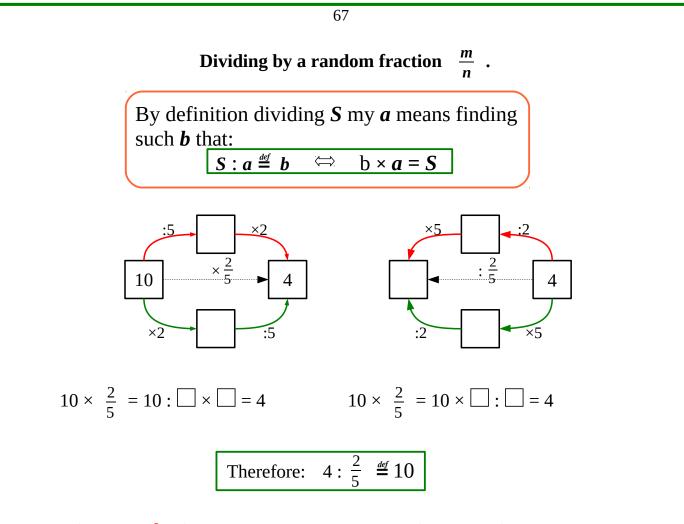
The ½ cm squares in you notebook are tessellations

Redraw **(ABC)** in the "tilted" coordinates made of parallelograms:

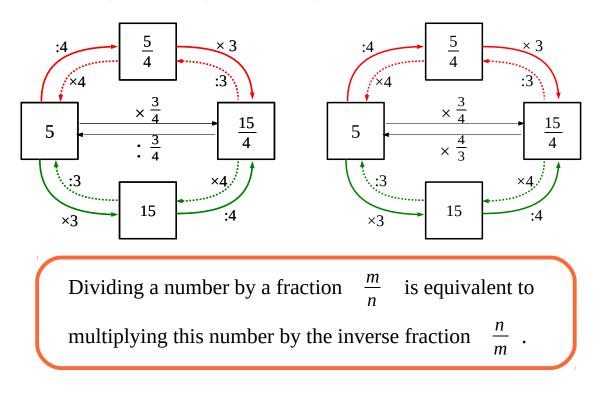


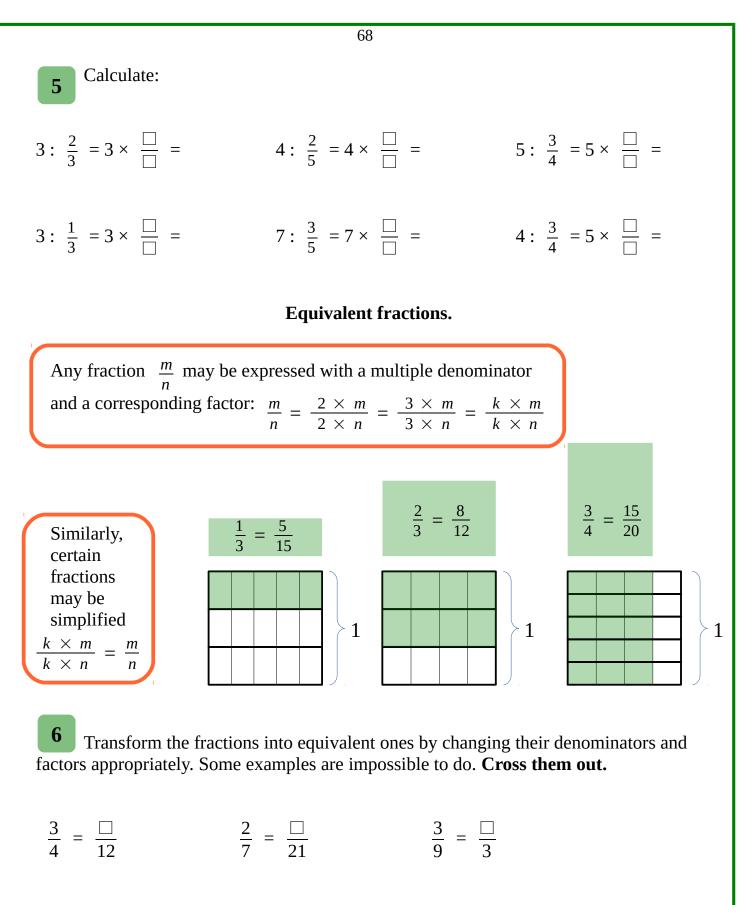


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In order to find the quotient we need to undo the operations performed upon multiplication by a fraction!





$$\frac{\Box}{6} = \frac{4}{12} \qquad \qquad \frac{\Box}{9} = \frac{7}{26} \qquad \qquad \frac{12}{8} = \frac{3}{\Box}$$