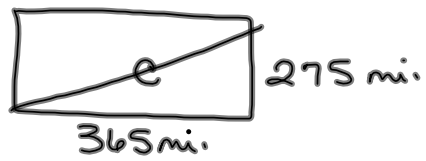
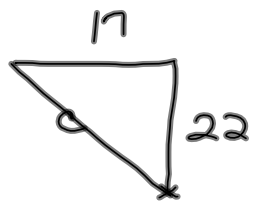


32.)



$$275^2 + 365^2 = c^2$$

36.)



$$17^2 + 22^2 = c^2$$

3-5 Using the Pythagorean Theorem

Make sure you can find a right triangle

$$\begin{array}{r} 3 \\ 3^2 \\ 9 \end{array} \quad + \quad \begin{array}{r} 4 \\ 4^2 \\ 16 \end{array} = \begin{array}{r} 5 \\ 5^2 \\ 25 \end{array}$$

Pythagorean Triples

	3	4	5	Most basic right triangle
x2	6	8	10	
x3	9	12	15	
x4	12	16	20	

Be sure you are multiplying the triples
3-4-5 all by the same number
(Equality Property)

Diagonal - The distance from a point across
to the opposite corner.
diagonal = hypotenuse

Draw Pictures !!



	3	4	5
x2	6	8	10
x3	9	12	15
x4	12	16	20
x5	15	20	25
x6	18	24	30
x7	21	28	35

$$21^2 + 28^2 = 35^2$$

