

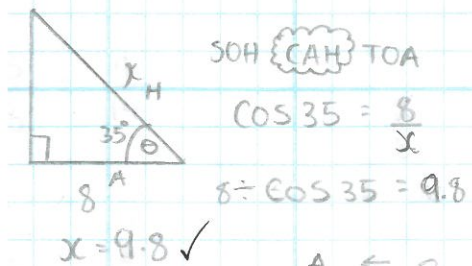
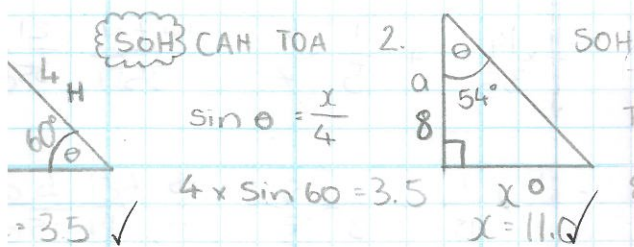
Similar right angle triangle investigation

$\theta = 55^\circ$

O_{mm}	A_{mm}	H_{mm}	$\frac{O}{H}$	$\frac{A}{H}$	$\frac{O}{A}$
417	299	511	0.82	0.59	1.4
378	271	465	0.81	0.58	1.41
339	242	417	0.81	0.58	1.40
300	214	368	0.82	0.58	1.40
262	186	321	0.82	0.58	1.4
222	158	272	0.82	0.58	1.4
184	130	225	0.82	0.58	1.42

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Find x:



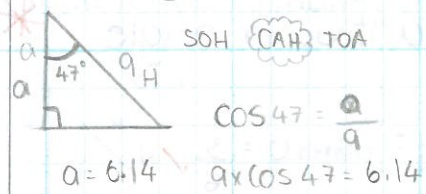
$\frac{A}{H} \leftarrow \frac{8}{x}$ A must go above H because
 $\frac{H}{A} \leftarrow \frac{x}{8}$
 CAH \leftarrow second/bottom
 first/top

Algebra - in Context
 - Everywhere
 - Rigour

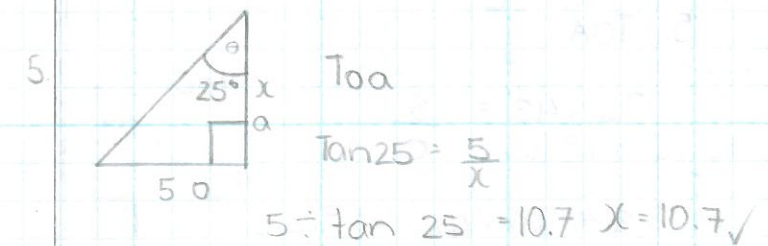
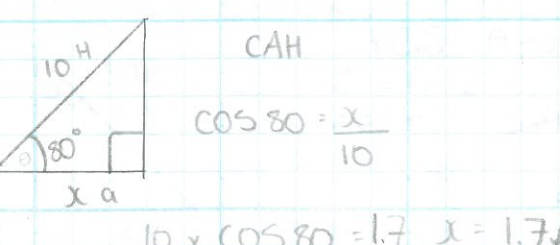
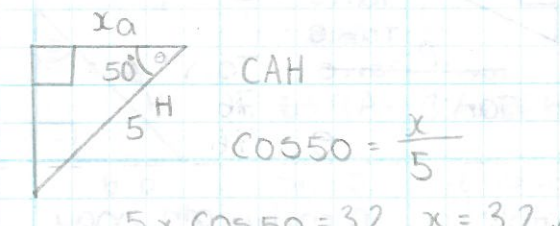
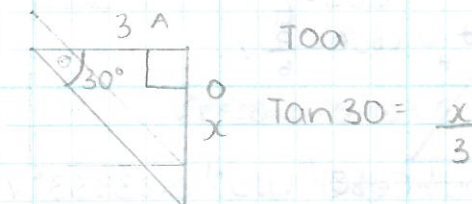
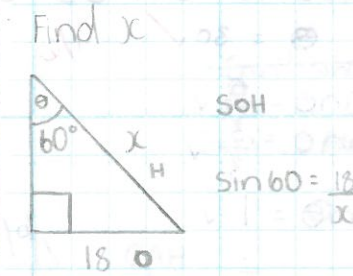
Showing good algebra habits throughout the introduction of trigonometry.

Numerical Rigour \rightarrow Algebraic Rigour
 (Context: Measurement) \rightarrow formal operations

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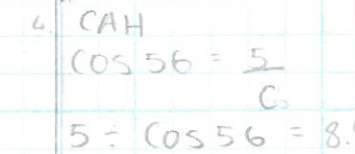
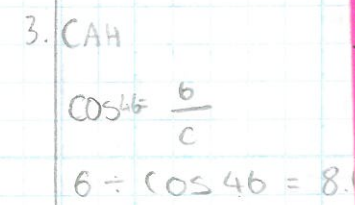
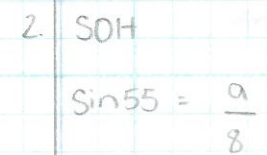
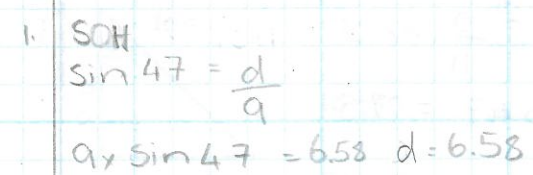


6. $3x = \frac{4}{x}$ \leftarrow these cancel $x = \frac{4}{3}$
 by this number $\rightarrow \frac{3x}{3} = \frac{4}{3}$
 divide both sides $\rightarrow x = \frac{4}{3} = 1\frac{1}{3}$
 7. $8.1x = \frac{2.6}{x}$
 $\frac{8.1x}{8.1} = \frac{2.6}{8.1}$ $x = \frac{2.6}{8.1} = 0.32$

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Mathletics

find the unknown side



Early Exercises
 Show some good thought processes but this student needs to move from $\frac{a}{b} = \frac{c}{d}$ format.
 Set working out vertically to show steps of reasoning.