Before we begin, are there any questions from last day's work?

READ Ex.1 pp. 378-379

pp. 381-384 #5, 7, 9, 10, 14, 20, 22

Enrichment: p. 384 #23

Today's Learning Goal(s):

By the end of the class, I will be able to:

a) Solve problems involving right triangles.

SWYK next class on:

Similar Triangles and

SOH CAH TOA

p.382
#10

c) TOA: $\tan \theta = \dfrac{70}{35}$

$\theta = \tan^{-1}\left(\dfrac{70}{35}\right)$

$\doteq 63.43$

$\doteq 63.4°$

a)

TOA

$\tan C = \dfrac{35}{30}$

$C = \tan^{-1}\left(\dfrac{35}{30}\right)$

$\doteq 49.39$

$\doteq 49.4°$

b) Find CA : SOH

$\sin 49.4° = \dfrac{35}{CA}$

$CA = \dfrac{35}{\sin 49.4°}$

$\doteq 46.09$

$\doteq 46.1$ m

50m = sand wedge

d)

63.40 AH hyp

70m opp

SOH

$\sin 63.4° = \dfrac{70}{AH}$

$AH = \dfrac{70}{\sin 63.4°}$

$\doteq 78.2$
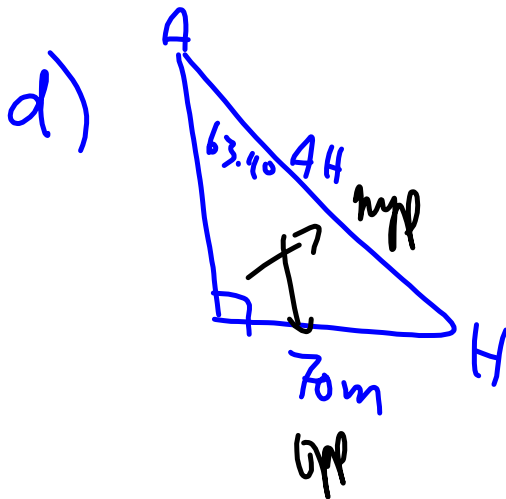
(pitching = 80m)
wedge

∴ pitching
wedge

MPM 2DI   7.5 Solve Problems Involving Right Triangles (Day2)

Date: Dec. 19/16

Warm-up: Solve for k, to one decimal place.

J $\quad$ K

adj

k

38.2°   18.7 cm

L $\qquad$ hyp
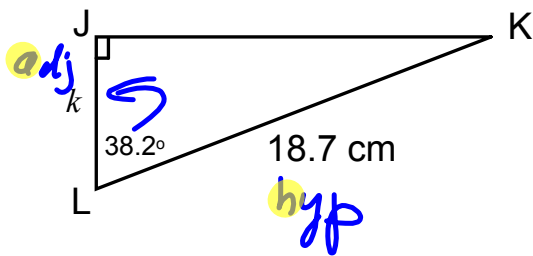
k=14.7 cm

$\angle A\ H$

$\cos = \dfrac{adj}{hyp}$

$\cos 38.2° = \dfrac{k}{18.7}$

$k = 18.7 \cos 38.2°$

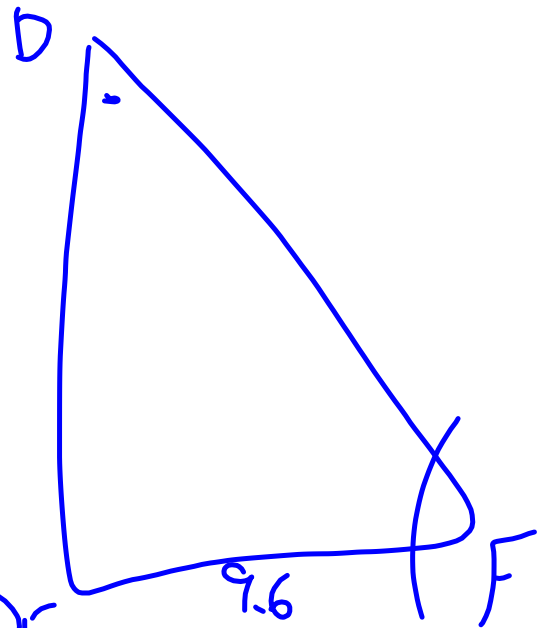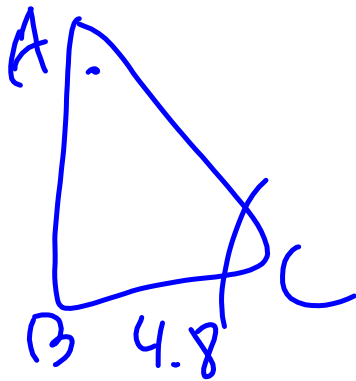$\doteq 14.69$

$\doteq 14.7$ cm

Today's practice: **pp. 382-385 #13, 17, 21, 27**

SWYK next class on:
Similar Triangles and
SOH CAH TOA

Today's practice: pp. 382-385 #13, 17, 21, 27

SWYK next class

A $\cdot$

D $\cdot$

B   4.8   C

9.6   F

E

$\angle \_\_\_\_ = \angle \_\_\_$ ( )

$\angle \_\_\_ = \angle \_\_\_$ ( )

$\therefore \triangle ABC \sim \triangle DEF$

opposite
given
common
$\angle$
F