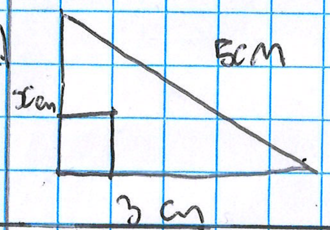
Useing Pythagoras' Theorem 17/06/2022

$5 \times 3 = 15$

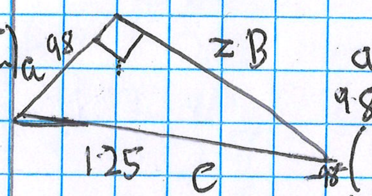
$15 - 6 = -1\ 1^2$

$-11 \times -11 = 121$ ✓

2) $\frac{3}{4} \times 9\pi = 21.21$

1) 

sorry example of the shape.

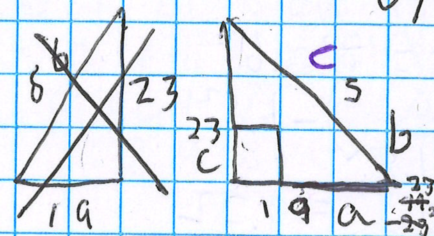
c) 

$a^2 + b^2 = c^2$

$98^2 + b^2 = 125^2$

$b^2 = 125^2 - 98^2 = 6021$

$\sqrt{\ }\ 77.69$

d) 

$a^2 + b^2 = c^2$

$19^2 + b = 23^2$

$b^2 = 23^2 - 19^2$

168

$\sqrt{\ }\ 12.97$

Four consecutive numbers Wednesday 29th June 2022

Starting to Explore Four Consecutive Numbers

Age 11 to 16
Challenge Level ★

Take four consecutive numbers, *a*, *b*, *c*, *d*. Find their sum

1.
(a) Four numbers sum to 130. What could they be?
(b) Can you find four consecutive numbers that sum to 130?
(c) Can you find four numbers including at least one negative number that sum to 130?

2.
(a) Choose a number under 100. Can you find four consecutive numbers that sum to it?
(b) Choose another number and do the same as above.

b) 36, 37, 38, 39 = 150 to big go smaller

16, 17, 18, 19 = 50

20, 21, 22, 23 = 86

31, 32, 33, 34 = 130 these numbers add up to 130

a) 17, 38, 46, 26 = 130 these numbers add up to 130

c) $-62 + 63 + 64 + 65 = 130$

It took a few trys but we found 130 and they are almost consecutive number just the -62

2) a) 80

Fallon