a) Determine the prime factorization of 36. Show your work.

2

9×9, x 2 x 3

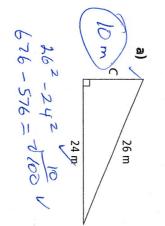
**b)** Is 36 a perfect square? Explain your thinking.

Yes, Mundoe because 2-25 OT (6×6

> of the whole number to one decimal and then estimate the square root Write the perfect square immediately before and after the whole number, calculator. place. Check your estimates with a

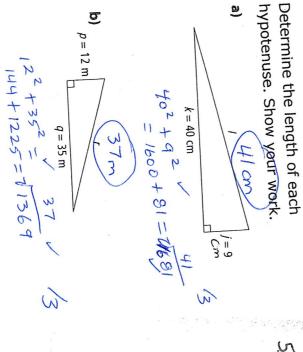
0	9	9	# S P
c) 100	p) 49	a) 25	erfect iquare Before
105	55	27	Whole Number
121	49	36	Perfect Square After
10.2	7.4	Sid	Approx- imate Square Root

 ${\cal J}$ . Use the relationship to determine the length of C in each triangle, whole number. Show your work. to the nearest



15 cm 29 2 39 cm 225 S 36 Cm

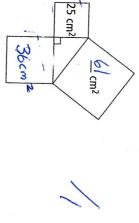




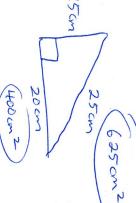
<u>a</u>

Show your work. square to find the unknown area of the in the following diagram,

÷ C

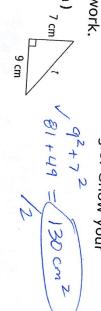


- 0 15 cm, 20 cm, and 25 cm. The sides of a right triangle measure
- a) What is the area of each square? Show your work.



225 cm2

7. What is the area of the square on side t of each triangle? Show your work.



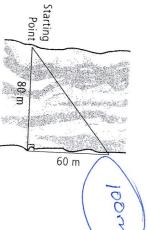
3. a) Complete the table using information provided in the diagram below.



Area of Square	Side Length of Square
289 cm 2	17 cm
64 cm 2	Se Car
225 cm 2	15 cm

S

Aden decides to swim across a river that is 80 m wide. As he begins to swim the current carries him 60 m downstream. How far did he actually swim?



80° + 60° - 100 000 6400 + 3600 = 100 000

The foot of a ladder is 1 m from a wall. If the ladder is 6 m long, how far up the wall does the ladder reach? Give the answer to the nearest tenth of a metre. Show your work.

