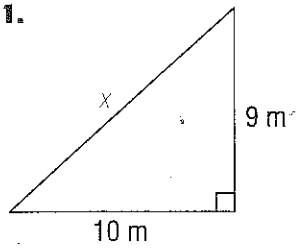
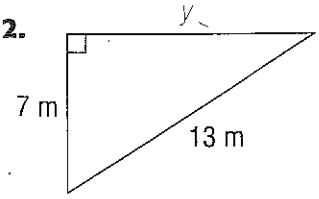
Practice

Find the length of the third side of each right triangle, to the nearest tenth of a metre.

1.



2.

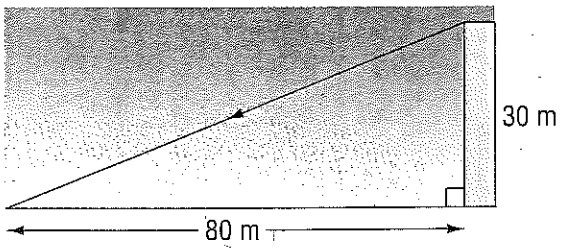


Problems and Applications

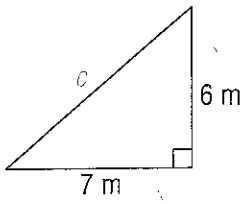
3. A 7-m ladder is leaning against a wall of a building. The foot of the ladder is 2 m from the base of the building. How far up the wall is the top of the ladder?

4. A ship left Shippegan, New Brunswick, and sailed east at 20 km/h for 2 h, then south at 25 km/h for 1 h. To the nearest tenth of a kilometre, how far was the ship from Shippegan?

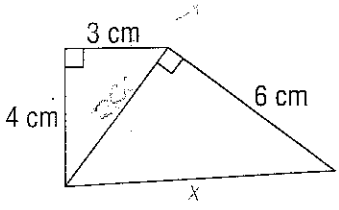
5. A camp swimming race starts from the end of a 30-m long pier. The finish point is on the shore 80 m from the foot of the pier. How long is the race, to the nearest metre?



6. Describe how you could use mental math to estimate c.



7. Find x, to the nearest tenth of a centimetre.



8. The base of the Pyramid of Khufu is a square with sides 230 m long. Calculate the length of the diagonal of this square, to the nearest tenth of a metre.

9. An RCMP patrol boat left Long Beach, British Columbia, and sailed west for 2 h at 15 km/h, then north for 2 h at 20 km/h, then east for 1 h at 10 km/h. How far was the patrol boat from Long Beach, to the nearest tenth of a kilometre?