

READING COMPREHENSION
EXERCISES ON THE AREAS OF
RECTANGLES AND TRIANGLES

BY

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Tolentino Tuition, Grade 7 Mathematics

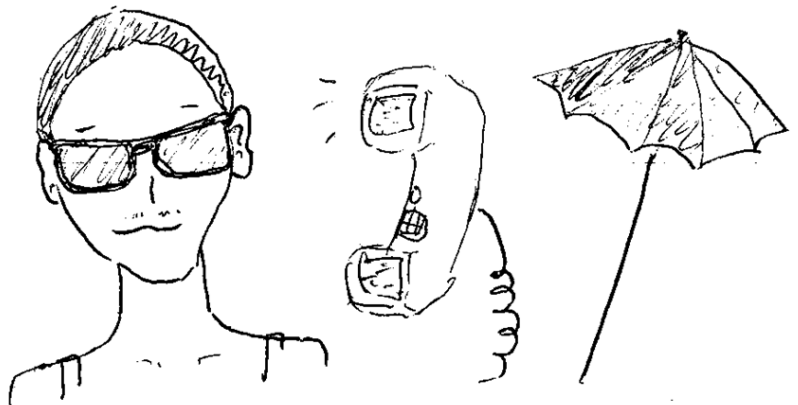
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EXERCISE 1

1. Jerome wants to purchase tiling for the bottom of his $9.5\text{ m} \times 42\text{ dm}$ pool.



- a. He calls *Cool Pools*, a tiling company who says that they can tile the floor of his pool for \$0.35 per square centimetre.

How much will Jerome pay if he hires *Cool Pools* to tile the floor of his pool?

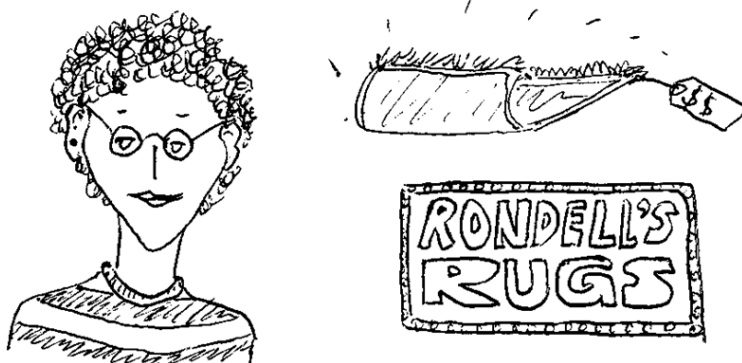
- b. Jerome is also considering a tiling company called *Tom's Tiles*. Tom, the owner, tells Jerome that he can tile the bottom of Jerome's pool using $60\text{ mm} \times 5\text{ cm}$ tiles, which will cost \$9.70 per tile.

How much will Jerome pay if he hires *Tom's Tiles* to tile the floor of his pool?

2. Jerome's wife, Anna, has imposed a strict budget of no more than \$135,000 for the tiling of their pool floor. Please advise Jerome as to whether he should hire *Cool Pools* or *Tom's Tiles* and explain why.

EXERCISE 2

- i. Raegan visits a store called *Rondell's Rugs* to purchase a triangular rug for her bedroom, which has a width of 5.32 m , and is $2\frac{1}{4}$ times as long as it is wide.



- a. Raegan is visually pleased by two triangular rugs. One is beige with a base of 0.401 dm and a height of 159.2 dm , and the other is burgundy with a base of 858 cm and a height of 7330 mm .

If Raegan wants a triangular rug with an area that is no less than half as large as the area of her bedroom, should she buy the beige rug, the burgundy rug, or neither?

- b. On her way to the checkout, a triangular lilac rug catches Raegan's eye. The tag reads ' 5.58 m tall, 0.1126 hm wide'. If *Rondell's Rugs* prices their rugs at $\$4.70$ per square metre, what is the difference in price between
- the lilac rug and the beige rug?
 - the beige rug and the burgundy rug?
 - the burgundy rug and the lilac rug?