

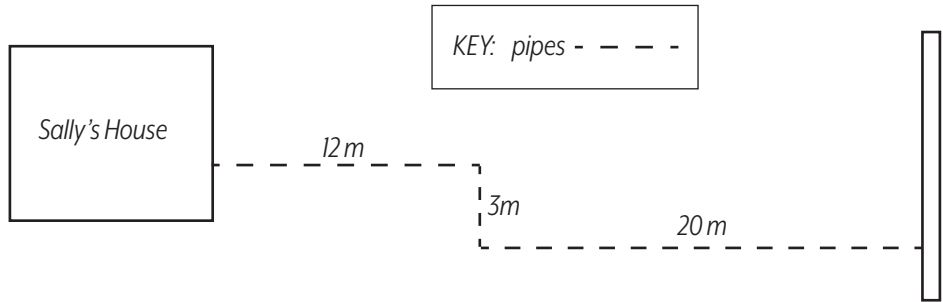
Name: _____

Calculating Costs - Length and Area

1) What is the total cost of 20 meters of plastic piping at \$15 per meter?

2) Sally needs to replace the pipes that carry water from her house to the street as shown.

Calculate the total cost of replacing the pipes if Sally needs to purchase the pipes and hire a plumber to lay the pipes.



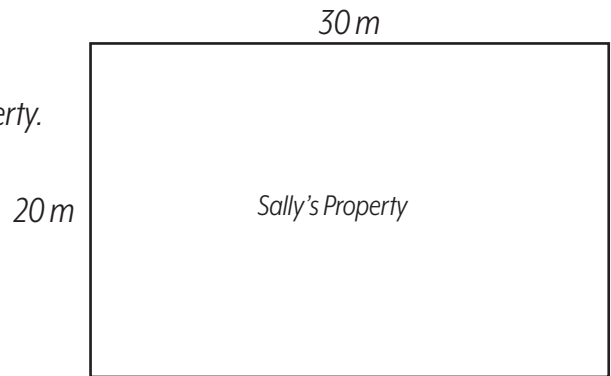
Cost to buy the pipes at \$15 per meter _____

Plumbing installation costs - \$12 per meter _____

total cost: _____

3) Sally wants to replace the fence that surrounds her entire property.

What is the total cost for a fence that costs \$32 per meter?



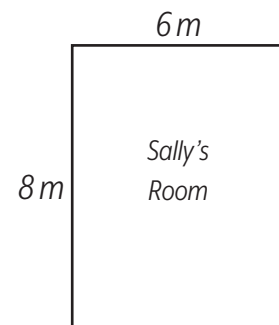
4) Sally wants to lay carpet in the room shown.

What is the total cost of carpeting the room if she needs to buy the carpet, the underlay and pay a carpet layer for installation.

Carpet - \$62 per square meter

Underlay - \$15 per square meter

Installation - \$22 per square meter

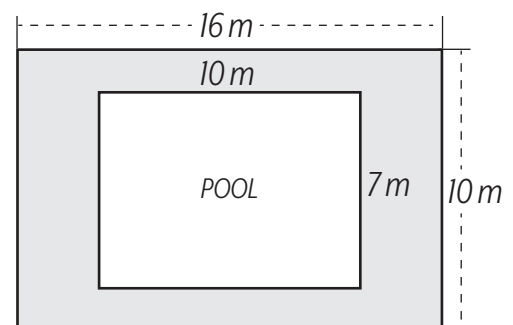


5) Sally wants to tile the area around her pool (shown by the area shaded grey).

How many square meters of tiles does Sally need?

What will it cost to buy the tiles at \$27 per square meter?

How much will Sally save on tiles during a 10% off sale?

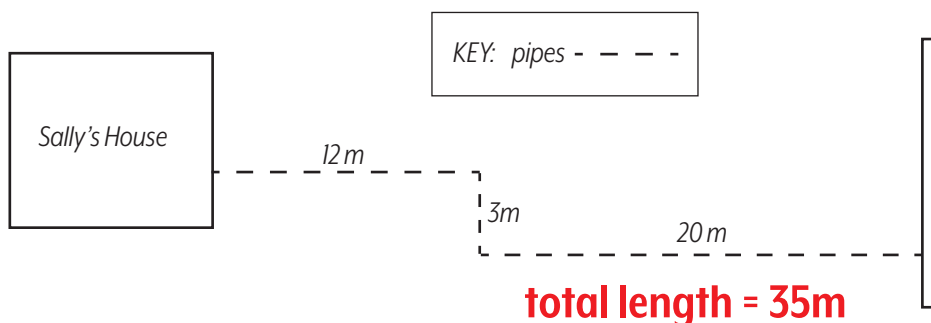


Calculating Costs - Length and Area

1) What is the total cost of 20 meters of plastic piping at \$15 per meter? **$\$15 \times 20 = \$300$**

2) Sally needs to replace the pipes that carry water from her house to the street as shown.

Calculate the total cost of replacing the pipes if Sally needs to purchase the pipes and hire a plumber to lay the pipes.

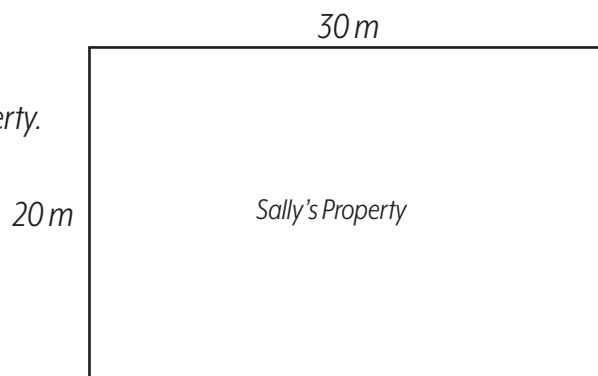


Cost to buy the pipes at \$15 per meter	<u>\$525</u>	(\$15 x 35m)
Plumbing installation costs - \$12 per meter	<u>\$420</u>	(\$12 x 35m)
total cost:	<u>\$945</u>	(\$525 + \$420)

3) Sally wants to replace the fence that surrounds her entire property. What is the total cost for a fence that costs \$32 per meter?

Sally needs 100m

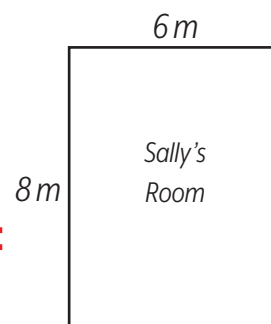
$\$32 \times 100 = \3200



4) Sally wants to lay carpet in the room shown.

What is the total cost of carpeting the room if she needs to buy the carpet, the underlay and pay a carpet layer for installation.

Carpet - \$62 per square meter	Area = 48m²
Underlay - \$15 per square meter	Total cost per square meter :
Installation - \$22 per square meter	$\\$62 + \\$15 + \\$22 = \\99
	Total cost : $\\$99 \times 48 = \\4752



5) Sally wants to tile the area around her pool (shown by the area shaded gray).

How many square meters of tiles does Sally need? **90m²**

What will it cost to buy the tiles at \$27 per square meter? **\$2430**

How much will Sally save on tiles during a 10% off sale? **\$243**

To calculate the area to be tiled, calculate the entire area first - $16 \times 10 = 160\text{m}^2$.

Then subtract the area of the pool. $160\text{m}^2 - 70\text{m}^2 = 90\text{m}^2$

