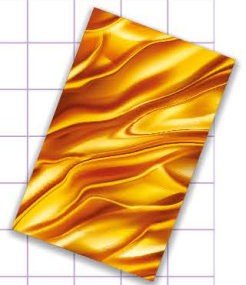


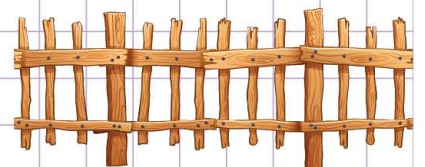
Name: Class:

How to use area and perimeter to determine cost

1. A special rectangular sheet of gold measures 12 inches by 10 inches. If the gold is worth \$6.00 per square inch, how much is the sheet of gold?



2. Peter has a small garden in his backyard. He wants to build a fence around the entire garden. The garden is 9 meters wide and 12 meters long. If it cost \$9.00 per meter to put a wooden fence, how much will it cost to put a wooden fence around the garden?

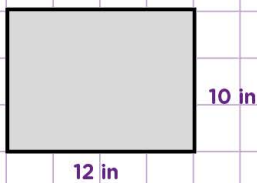


Name: Class:

How to use area and perimeter to determine cost

1. A special rectangular sheet of gold measures 12 inches by 10 inches. If the gold is worth \$6.00 per square inch, how much is the sheet of gold?

Let's first of all imagine and draw the sheet of gold.



Secondly, let's find the area,

Length = 12 in

Width = 10 in

Area = length x width

$$= 12 \text{ in} \times 10 \text{ in}$$

$$= 120 \text{ in}^2$$

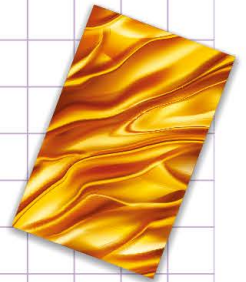
Finally, let's find the cost of the sheet of gold.

If 1 square inch = \$6.00,

$$\text{therefore, } 120 \text{ square inch} = \$ \frac{(120 \times 6.00)}{1}$$

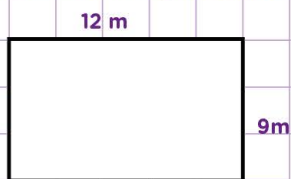
$$= \$720$$

So, the sheet of gold is \$720.



2. Peter has a small garden in his backyard. He wants to build a fence around the entire garden. The garden is 9 meters wide and 12 meters long. If it cost \$9.00 per meter to put a wooden fence, how much will it cost to put a wooden fence around the garden?

Let's first of all imagine and draw the garden.



Secondly, let's find the perimeter

Perimeter = sum of the side lengths

$$= (12 + 9 + 12 + 9) \text{ m}$$

$$= 42 \text{ m}$$

Finally, let's find the cost to fence the garden.

If 1 meter = \$9.00,

$$\text{Therefore, } 42 \text{ meter} = \$ \frac{(42 \times 9.00)}{1}$$

$$= \$378$$

So, it will cost \$378 to put a wooden fence around the garden.

