



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Galileo runs a small weekly paper and uses his paper to advertise his car yards. He usually just squeezes in his advertisement when he has space left over which he cannot sell to anybody else. This week he has 16 pages and over those pages he has found a total of 6 spare spaces on different pages. The dimensions for each space are:

page 3.....10 x 12 cm	page 9.....8 x 3 cm
page 4.....14 x 5 cm	page 11.....20 x 2 cm
page 7.....6 x 5 cm	page 14.....13 x 3 cm



1. What is the total amount of space left over? .....
2. If Galileo sells advertising at a rate of \$1.50 per square centimeter, how much will he be losing this week? .....

Galileo has decided to offer a special deal to cover his costs. Now an advertiser can get an

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- a) .....
- b) .....

**Challenge:**  
How many cubic meters of dirt are in a hole measuring 6 meters wide, 4 meters long and 3 meters deep?



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1. What is the total amount of space left over?  $323 \text{ cm}^2$
2. If Galileo sells advertising at a rate of \$1.50 per square centimeter, how much will he be losing this week?  $\$484.50$

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a) Galileo could offer the three ads altogether for the one flat rate of \$100.

b) If he can't attract anybody who wants all 3 advertisement spaces he could sell them individually at a reduced rate. Galileo has 179 cm<sup>2</sup> left in advertising space. If he offers 56c per square centimeter he will make \$100.24 on the space.

### Challenge:

How many cubic meters of dirt are in a hole measuring 6 meters wide, 4 meters long and 3 meters deep? **A hole is a hole, there would be no dirt.**