

Math  
for  
Yeshivahs

# Math:

## Elementary level

Circle the right answer:

1.) What are the matching letters for 25?

A. טו

B. כה

C. לה

D. חי

2.) What number matches נז ?

A. 23

B. 35

C. 57

D. 67

3.) What is the longest Mezuzah?



A.



B.



C.



D.

## Intermediate level

4.) Reuven makes \$70,000 a year as an accountant. His net pay is \$60,000.

If he gives the minimum of 10% of his net pay to Tzedaka, much must he give?

Fill in the answer here: \$ \_\_\_\_\_.

5.) If Reuven (in problem 4) gives the maximum of 20% to Tzedaka, how much is his net pay now? Fill in the answer here: \$ \_\_\_\_\_.

## Advanced level

6.) In preparation for a Daf Yomi Shiur, Rav Weiss and Rav Schwartz worked on typing, editing and printing learning material for a large attendance. If Rav Weiss can do the job by himself in 2 hours, and Rav Schwartz can do it alone in 3 hours, how long will it take the two of them together?

Circle the right answer:

A. 2 hr

B. 1 hr

C.  $\frac{1}{2}$  hr

D.  $1\frac{1}{5}$  hr

## Answers

1.) B    2.) C    3.) C    4.) \$6,000    5.) \$48,000    6.) D

### Solution to 6.):

Rav Weiss can do  $\frac{1}{2}$  the work in 1 hour. Rav Schwartz does  $\frac{1}{3}$  the work in 1 hour. Together (let's call it "t"), they can do it in  $\frac{1}{t}$ . So, let's set it up like this:

R. Weiss =  $\frac{1}{2}$  per hour ; R.Schwartz =  $\frac{1}{3}$  per hour;  
 $t = \frac{1}{t}$  per hour

Now let's put it together -

$\frac{1}{2}$  hr +  $\frac{1}{3}$  hr =  $\frac{1}{t}$  ;  $\frac{3}{6}$  hr +  $\frac{2}{6}$  hr =  $\frac{1}{t}$  ;  $\frac{5}{6}$  hr =  $\frac{1}{t}$  ;  
 $t = \frac{6}{5}$  hours

So, it takes  $1\frac{1}{5}$  hours for the two of them together to complete the job. Right answer is D.