

Math for Yeshivahs

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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.