

2005 Penny Sikes Math Tournament  
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Question 1 ('05)

A bakery lowered its price for cookies from 25 cent to 20 cent each. For \$4 how many more cookies could you buy now than before?

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Question 2 ('05)

Thirty-three minutes after 11 A.M. is \_\_\_\_\_ minutes before 1 P.M.

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Question 3 ('05)

How many dots would be in the fifth figure?



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Question 4 ('05)

Bob has only enough paint to cover a wall 12m by 15m. At most how many different square of size 3m by 3m can he paint on that wall?

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Question 5 ('05)

Greg, Harry, Melissa, and Bob worked at a school care wash. Greg washed twice as many cars as Harry. Harry washed 4 fewer cars than Melissa, who washed 5 more cars than Bob. Bob washed 8 cars. How many cars were washed in all?

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Question 6 ('05)

The average of 7 whole numbers is 7. If 6 of these numbers are 1, then the seventh number must be...

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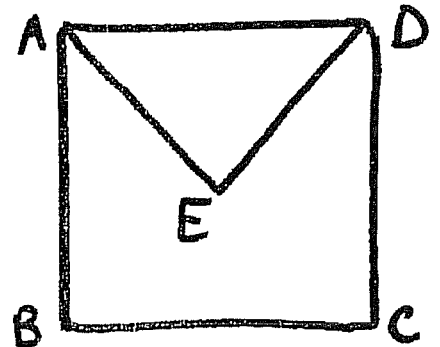
Question 7 ('05)

Half of the students who ride bus #44 are girls. One-fifth of the girls wears glasses. If four girls wear glasses, how many students ride bus #44.

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Question 8 ('05)

As shown, ABCD is a square and ADE is an equilateral triangle. What is the degree-measure of angle BAE?



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Question 9 ('05)

Your bill at the grocery store is \$21.88.  
You give the cashier \$22. How many  
ways can you be given change?

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Question 10 ('05)

Carlos wants to buy a CD player for \$99.  
If he has \$30 now and plans to save \$5  
per week, how long will it take him to  
save enough money?

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Question 11 ('05)

You are making chili for a party. You need 2 quarts of chili to feed 9 people. How many quarts of chili will you need for 144 people?

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Question 12 ('05)

I am thinking of a number. When I subtract 20 from 4 times my number, the result is 100. I am thinking of the number \_\_\_\_\_.

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Question 13 ('05)

There are 32 students in your math class. Of these students, 21 made the honor roll and 13 earned A's in math. If 5 students earned both. How many students did not earn either A's in math or honor roll?

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Question 14 ('05)

A snail at the bottom of well 12 feet deep crawls up 3 feet each day, but slips back 2 feet each night. How many days will it take the snail to reach the top of the well?

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Question 15 ('05)

A feature film runs 2 hours and 9 minutes. The theater requires 10 minutes between performances and 12 minutes of previews and short subjects to show before the feature. If the first showing begins with previews at exactly 4:00 P.M.. When will the third showing of the feature end?

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Question 16 ('05)

$$(1 + 2 + 3 + \dots + 40 + 50) + (99 + 98 + 97 + \dots + 51 + 50) = \underline{\hspace{2cm}}$$

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# Ciphering Key 2005

1. 4

2. 87

3. 25

4. 20 *start here*

5. 48

6. 43

7. 40

8. 30

9. 4

10. 14

11. 32

12. 30

13. 3

14. 10

15. 11:23

16. 5000