

**Great
for full lesson
plans!**

MATHCOUNTS® Faster Arithmetic Methods



Warm-Up!

Solve these problems before watching the lesson.

1. $2 + 0.57$

2. The value of $1 \times 12 + 2 \times 11 + 3 \times 10 + 4 \times 9 + 5 \times 8 + 6 \times 7 + 7 \times 6 + 8 \times 5 + 9 \times 4 + 10 \times 3 + 11 \times 2 + 12 \times 1$

Alan has 25 marbles, of which 20% are red. Thyra has 20 marbles, of which 70% are not red. What is the absolute difference between the numbers of red marbles they have?

4. What is the value of the sum $\frac{1}{9} + \frac{2}{9} + \frac{3}{9} + \frac{4}{9} + \frac{5}{9} + \frac{6}{9} + \frac{7}{9} + \frac{8}{9}$?

5. What is the value of the sum $0.49 + 0.53 + 0.55 + 0.47 + 0.48$? Express your answer as a decimal to the nearest hundredth.



The Problems

Take a look at the following problems and follow along as they are explained in the video.

6. What is the value of the sum $\frac{1}{87} + \frac{2}{87} + \frac{3}{87} + \frac{4}{87} + \dots + \frac{84}{87} + \frac{85}{87} + \frac{86}{87}$?

7. What is the value of $1 \times 9 + 2 \times 20 + 3 \times 99 + 4 \times 999 + 5 \times 9999$?

8. What is the value of $55 \times 33 = 153$?

Mathcounts Club Resource Guide Problem Set

Wenbin Ji



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