

# Event 4: Mental Math

7th/8th grade  
Math Meet '08

Example:

PENCILS DOWN

$$(7 \times 3) + (7 + 3)$$

Problem 1:

PENCILS DOWN

$$9 + 8 + 7 + 6 + 5 + 4$$

Problem 2:

PENCILS DOWN

$$10^2 - 7^2 - 3^2$$

Problem 3:

PENCILS DOWN

$$\frac{100}{10} + \frac{121}{11} + \frac{144}{12}$$

Problem 4:

PENCILS DOWN

$$38 + 39 + 40 + 41 + 42$$

Problem 5:

PENCILS DOWN

$$\sqrt{196} - \sqrt{169}$$

Problem 6:

PENCILS DOWN

$$\frac{4 \times 5 \times 6}{16 \times 20 \times 24}$$

Problem 7:

PENCILS DOWN

$$(8 \times 8) + (8 + 8)$$

Problem 8:

PENCILS DOWN

$$\frac{3^5 (3^4 + 3^3)}{3^6}$$

Problem 9:

PENCILS DOWN

$$(8 \times 8) + (8 \times 5) + (5 \times 8) + (5 \times 5)$$

Problem 10:

PENCILS DOWN

$$250 \times \left(1 + \frac{1}{250}\right) \times 8$$