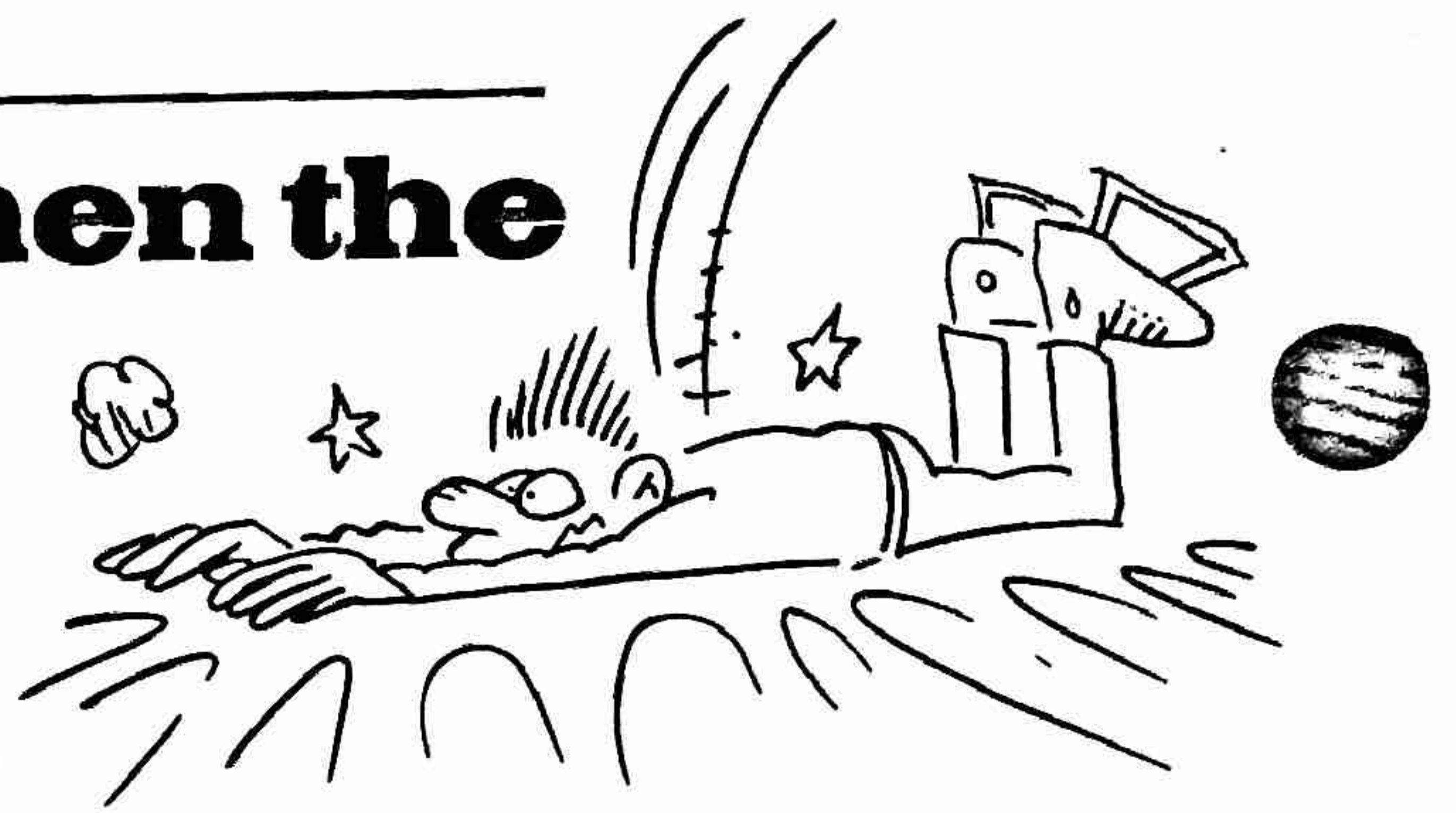


Team Name: \_\_\_\_\_ Partner A: \_\_\_\_\_

# Did Anybody Laugh When the Ice Skater Fell Down?

Simplify the expression, then cross out the letter pair next to your answer. For each letter pair that you DON'T cross out, write the uppercase letter in the box containing the lowercase letter.



1.  $\frac{15}{x^2 - 9} + \frac{2}{x + 3}$

2.  $\frac{15}{x^2 - 9} - \frac{2}{x + 3}$

3.  $\frac{7x}{x^2 - 7x + 10} - \frac{4}{x - 2}$

4.  $\frac{3}{x} - \frac{x + 8}{x^2 + 5x}$

5.  $\frac{6}{x + 4} - \frac{x - 2}{x^2 + 7x + 12}$

6.  $\frac{k^2}{2k - 10} + \frac{25}{10 - 2k}$

7.  $\frac{k}{3k - 8} - \frac{4}{k + 2}$

8.  $\frac{3}{k + 4} + \frac{k + 4}{5k - 1}$

9.  $\frac{3}{k + 4} - \frac{k + 4}{5k - 1}$

10.  $\frac{k^2 - 19}{k^2 - 8k + 7} - \frac{k + 2}{k - 1}$

## Answers 1-5

**b:h**  $\frac{4x + 15}{(x - 2)(x - 5)}$

**j:n**  $\frac{2x + 7}{x(x + 5)}$

**h:o**  $\frac{-2x + 21}{(x + 3)(x - 3)}$

**l:a**  $\frac{7x + 16}{(x + 3)(x + 4)}$

**a:s**  $\frac{5}{x + 3}$

**m:r**  $\frac{2x + 9}{(x + 3)(x - 3)}$

**c:e**  $\frac{4x + 3}{x(x + 5)}$

**n:e**  $\frac{-2x + 25}{(x + 3)(x - 3)}$

**f:l**  $\frac{4x + 7}{(x + 3)(x - 3)}$

**k:v**  $\frac{3x + 20}{(x - 2)(x - 5)}$

## Answers 6-10

**d:y**  $\frac{k^2 - 10k + 32}{(3k - 8)(k + 2)}$

**l:r**  $\frac{-k^2 + 7k - 19}{(k + 4)(5k - 1)}$

**m:d**  $\frac{k^2 + 15k + 8}{(k + 4)(5k - 1)}$

**h:e**  $\frac{k + 25}{2k - 5}$

**g:c**  $\frac{-k^2 + 9k - 11}{(k + 4)(5k - 1)}$

**k:m**  $\frac{8k - 3}{(k - 1)(k - 7)}$

**k:s**  $\frac{k^2 + 23k + 13}{(k + 4)(5k - 1)}$

**g:n**  $\frac{k + 5}{2}$

**e:l**  $\frac{5}{k - 7}$

**a:t**  $\frac{k^2 - 8k + 40}{(3k - 8)(k + 2)}$

a	b	c	d	e	f	g	h	i	j	k	l	m	n
---	---	---	---	---	---	---	---	---	---	---	---	---	---