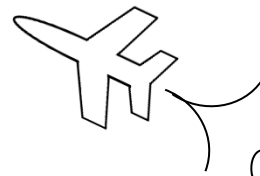




MAth on the Fly!



NAME: _____ DATE: _____

Factorials, Combinations and Permutations

Find the answer to each problem below.

1. $\frac{10!}{9!} \cdot 4!$

2. $\frac{11!}{8! \cdot 3!}$

3. $\frac{30! \cdot 45!}{43! \cdot 29!}$

4. $\frac{100!}{98!} - 9900$

5. $7P_2$

6. $6C_4$

7. $13C_{13}$

8. $5P_5$

9. $25P_3$

10. $25C_3$

11. $20C_4 - 8P_4$

12. $48P_0 + 57C_0$

13. $9C_1 \cdot 10P_2$

14. $10C_2 \cdot 9P_1$

SOLUTIONS

1. 240

2. 165

3. 59,400

4. 0

5. 42

6. 15

7. 1

8. 120

9. 13,800

10. 2,300

11. 3,165

12. 2

13. 810

14. 405