

Name : _____

Topic: Math – Properties of Multiplication

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Directions: Write **IPM** if it's Identity Property of Multiplication, **ZPM** if it's Zero Property of Multiplication, **CPM** if it's Commutative Property of Multiplication, **APM** if it's Associative Property of Multiplication, **DPMA** if it's Distributive Property of Multiplication over Addition, **DPMS** if it's Distributive Property of Multiplication over Subtraction.

_____ A) $8 \times 4 = 4 \times 8$

_____ B) $754 \times 1 = 754$

_____ C) $(54 - 18) \times 8 = (54 \times 8) - (18 \times 8)$

_____ D) $0 \times 56 = 0$

_____ E) $1 \times 8\,920 = 8\,920$

_____ F) $462 \times (14 \times 64) = (462 \times 14) \times 64$

_____ G) $(54 + 23) \times 6 = (54 \times 6) + (23 \times 6)$

_____ H) $(624 \times 0) \times 5 = 0$

_____ I) $7\,524 \times 1\,354 = 1\,354 \times 7\,524$

_____ J) $3 \times (365 - 128) = (3 \times 365) - (3 \times 128)$

Directions: Fill in the missing numbers using your knowledge on the properties of multiplication.

A) $47 \times 90 = \underline{\hspace{2cm}} \times 47$

B) $(\underline{\hspace{2cm}} \times 8) \times 12 = 136 \times (8 \times 12)$

C) $(125 + 542) \times 7 = (\underline{\hspace{2cm}} \times 7) + (542 \times 7)$

D) $1 \times \underline{\hspace{2cm}} = 625$

E) $33 \times \underline{\hspace{2cm}} = 95 \times 33$

F) $\underline{\hspace{2cm}} \times 567 = 567$

G) $(6\,509 \times 32) \times 8 = \underline{\hspace{2cm}} \times (32 \times 8)$

H) $(38 \times \underline{\hspace{2cm}}) \times 49 = 0$

I) $3 \times (445 - 215) = (3 \times \underline{\hspace{2cm}}) - (3 \times 215)$

J) $4 \times (1\,592 + \underline{\hspace{2cm}}) = (4 \times 1\,592) + (4 \times 47)$

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