

Performance Task: 8.5H
Proportional & Non-Proportional Relationships: Shipping Plans

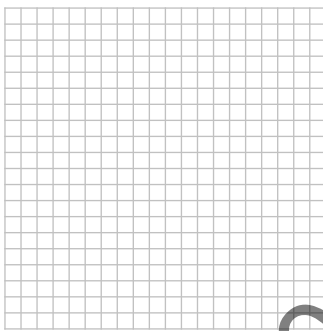
Mrs. Mancini is starting a small business where she will ship her product direct to customers. She wants to make sure her shipping and handling charges are proportional to the amount of the customer’s purchase. Mrs. Mancini is trying to select among 3 different shipping plans:

Plan A: charges a flat rate of \$10 plus 5% of the order’s subtotal for orders over \$100;

Plan B: charges 15% of the order’s subtotal for shipping regardless of the order’s size;

Plan C: uses a graduated scale of \$10 shipping for orders totaling \leq \$100, \$20 for orders totaling $\$100 < \text{total} \leq$ \$200, \$30 for orders totaling $\$200 < \text{total} \leq$ \$300, etc.

Which plan(s) meet(s) her needs? Justify your reasoning.



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Procedural	0	1	2
Conceptual	0	1	2
Communication	0	1	2

Total points: _____

