

Derek wants to order some roses online. For what number of roses is it less expensive to order from Florist A? From Florist B?



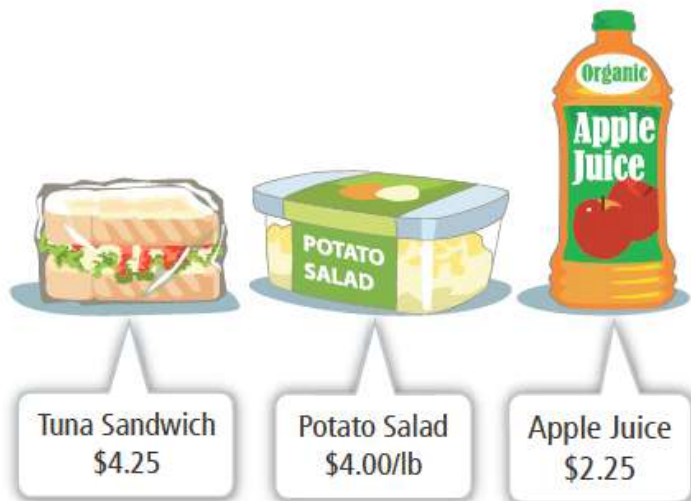
Florist A:
\$4.75 per blue rose
plus \$40
delivery charge.



Florist B:
\$5.15 per red rose
plus \$25
delivery charge.

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46. **Make Sense and Persevere** An office manager is selecting a water delivery service. Acme H₂O charges a \$15 fee and \$7.50 per 5-gallon jug. Best Water charges a \$24 fee and \$6.00 per 5-gallon jug. How many 5-gallon jugs will the office have to buy each month for the cost of Best Water to be less than that of Acme H₂O?

47. **Model With Mathematics** Charlie can spend up to \$8 on lunch. He wants to buy a tuna sandwich, a bottle of apple juice, and x pounds of potato salad. Write and solve an inequality to find the possible numbers of pounds of potato salad he can buy.



48. Match each inequality with the equivalent inequality.

A. $-\frac{1}{2}x > -\frac{3}{2}$

I. $x < 3$

B. $\frac{1}{2}x > \frac{3}{2}$

II. $x > 3$

C. $\frac{3}{2}x > \frac{1}{2}$

III. $x > \frac{1}{3}$

D. $-\frac{3}{2}x > -\frac{1}{2}$

IV. $x < \frac{1}{3}$

49. **SAT/ACT** Which of the following is the solution of $0.125x + 1 - 0.25x < -3$?

Ⓐ $x < -0.5$

Ⓑ $x < 0.5$

Ⓒ $x > 0.5$

Ⓓ $x < 32$

Ⓔ $x > 32$