## Unit 6 Lesson 10 Cumulative Practice Problems

1. Andre wants to buy a backpack. The normal price of the backpack is $40. He notices that a store that sells the backpack is having a 30% off sale. What is the sale price of the backpack?
* (From Unit 4, Lesson 11.)
1. On the first math exam, 16 students received an A grade.  On the second math exam, 12 students received an A grade. What percentage decrease is that?
* (From Unit 4, Lesson 12.)
1. Solve each equation.
	1. $2(x−3)=14$
	2. $-5(x−1)=40$
	3. $12(x+10)=24$
	4. $\frac{1}{6}(x+6)=11$
	5. $\frac{5}{7}(x−9)=25$
2. Select **all** expressions that represent a correct solution to the equation $6(x+4)=20$.
	1. $(20−4)÷6$
	2. $\frac{1}{6}(20−4)$
	3. $20−6−4$
	4. $20÷6−4$
	5. $\frac{1}{6}(20−24)$
	6. $(20−24)÷6$
3. Lin and Noah are solving the equation $7(x+2)=91$.
* Lin starts by using the distributive property. Noah starts by dividing each side by 7.
	1. Show what Lin's and Noah's full solution methods might look like.
	+
	1. What is the same and what is different about their methods?



© CC BY Open Up Resources. Adaptations CC BY IM.