### Lesson 10 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. $2\left(x−3\right)=14$
	2. $-5\left(x−1\right)=40$
	3. $12\left(x+10\right)=24$
	4. $\frac{1}{6}\left(x+6\right)=11$
	5. $\frac{5}{7}\left(x−9\right)=25$
2. Select **all** expressions that represent a correct solution to the equation $6\left(x+4\right)=20$.
	1. $\left(20−4\right)÷6$
	2. $\frac{1}{6}\left(20−4\right)$
	3. $20−6−4$
	4. $20÷6−4$
	5. $\frac{1}{6}\left(20−24\right)$
	6. $\left(20−24\right)÷6$
3. Lin and Noah are solving the equation $7\left(x+2\right)=91$.
* 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?



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