## Unit 6 Lesson 11 Cumulative Practice Problems

1. For each expression, use the distributive property to write an equivalent expression.
	1. $4(x+2)$
	2. $(6+8)⋅x$
	3. $4(2x+3)$
	4. $6(x+y+z)$
2. Priya rewrites the expression $8y−24$ as $8(y−3)$. Han rewrites $8y−24$ as $2(4y−12)$. Are Priya's and Han's expressions each equivalent to $8y−24$? Explain your reasoning.
3. Select **all** the expressions that are equivalent to $16x+36$.
	1. $16(x+20)$
	2. $x(16+36)$
	3. $4(4x+9)$
	4. $2(8x+18)$
	5. $2(8x+36)$
4. The area of a rectangle is $30+12x$. List at least 3 possibilities for the length and width of the rectangle.
5. Select **all** the expressions that are equivalent to $\frac{1}{2}z$.
	1. $z+z$
	2. $z÷2$
	3. $z\boldcdotz$
	4. $\frac{1}{4}z+\frac{1}{4}z$
	5. $2z$
* (From Unit 6, Lesson 8.)
	1. What is the perimeter of a square with side length:
	+ 3 cm?
	+ 7 cm?
	+ $s$ cm?
	1. If the perimeter of a square is 360 cm, what is its side length?
	2. What is the area of a square with side length:
	+ 3 cm?
	+ 7 cm?
	+ $s$ cm?
	1. If the area of a square is 121 cm2, what is its side length?
* (From Unit 6, Lesson 6.)
1. Solve each equation.
* $10=4a$
* $5b=17.5$
* $1.036=10c$
* $0.6d=1.8$
* $15=0.1e$
* (From Unit 6, Lesson 5.)



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