



Variables and expressions

Grade 5 Pre-Algebra Worksheet

Write an expression to answer each question. State what the variable is. The first one is done for you as an example. (Variables may vary)

	<u>Expression</u>	<u>Variable</u>
<i>John scored 3 more points than James. How many points did John score?</i>	$p + 3$	$p = \text{number of points James scored}$
1. If the length of a rectangle is 5 inches more than twice of its width, how long is the length?	_____	_____
2. Angel is 7 kilograms heavier than Harry. How heavy is Angel?	_____	_____
3. Christian works for \$50 a day and additional \$6 per hour for overtime. If he works t hours overtime in a day, how much money will he receive?	_____	_____
4. Mickey bought 3 pillows and a blanket for a total cost of \$85. If each pillow costs \$ p , how much is the blanket?	_____	_____
5. Stephen is 5 years less than twice the age of Jimmy. How old is Stephen?	_____	_____
6. Jasmine has 3 dollars and n dimes in her pocket. How much money does she have in all?	_____	_____
7. Nicole has \$50 dollars on her pocket. If she buys 3 pairs of socks for \$ d each, how much does she has left?	_____	_____
8. Find the number of minutes in t hours.	_____	_____
9. Kristof finished reading the book 15 minutes faster than Elsa. How long did Kristof take to finish reading the book?	_____	_____
10. Jimmy is 11 centimeters taller than twice the height of Carl. How tall is Jimmy?	_____	_____



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	<u>Expression</u>	<u>Variable</u>
<i>John scored 3 more points than James. How many points did John score?</i>	$p + 3$	p = number of points James scored
1. If the length of a rectangle is 5 inches more than twice of its width, how long is the length?	$2w + 5$	w = width
2. Angel is 7 kilograms heavier than Harry. How heavy is Angel?	$h + 7$	h = weight of Harry
3. Christian works for \$50 a day and additional \$6 per hour for overtime. If he works t hours overtime in a day, how much money will he receive?	$\$6t + 50$	t = number of overtime hours
4. Mickey bought 3 pillows and a blanket for a total cost of \$85. If each pillow costs $\$p$, how much is the blanket?	$85 - 3p$	p = cost of each pillow
5. Stephen is 5 years less than twice the age of Jimmy. How old is Stephen?	$2j - 5$	j = age of Jimmy
6. Jasmine has 3 dollars and n dimes in her pocket. How much money does she have in all?	$3 + 0.10n$	n = number of coins
7. Nicole has \$50 dollars on her pocket. If she buys 3 pairs of socks for $\$d$ each, how much does she has left?	$\$50 - 3d$	d = cost of each pair of socks
8. Find the number of minutes in t hours.	$60t$	t = number of hours
9. Kristof finished reading the book 15 minutes faster than Elsa. How long did Kristof take to finish reading the book?	$e - 15$	e = number of minutes Elsa reading the book
10. Jimmy is 11 centimeters taller than twice the height of Carl. How tall is Jimmy?	$2c + 11$	c = height of Carl