



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. Each basket contains 12 melons. If there are b baskets, how many melons are there in all?	_____	_____
2. Robin is 5 years older than Gerry. How old is Gerry?	_____	_____
3. Samantha finished the work 35 minutes slower than Anna. How long did Samantha work?	_____	_____
4. The length of the rectangle is 21 cm longer than the width. Find the measurement of the width.	_____	_____
5. Find the number of hours in d days.	_____	_____
6. Angel is 3 kilograms lighter than Carlo. How heavy is Angel?	_____	_____
7. The height of a plant was d inches. After a month, it grew by 8 inches. How tall is the plant now?	_____	_____
8. Jefferson bought 60 meters of rope. If he cuts it into r equal parts, how long is each piece?	_____	_____
9. Peter sold 23 second-hand cars last month. This month, he sold m second-hand cars more than last month. How many cars was he able to sell this month?	_____	_____
10. Each pizza is cut into n equal slices. If there are 9 pizzas to be cut, how many slices will there be?	_____	_____



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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. Each basket contains 12 melons. If there are b baskets, how many melons are there in all?	<u>$12b$</u>	b = number of baskets
2. Robin is 5 years older than Gerry. How old is Gerry?	<u>$r - 5$</u>	r = age of Robin
3. Samantha finished the work 35 minutes slower than Anna. How long did Samantha work?	<u>$a + 35$</u>	a = time of Anna finished the work
4. The length of the rectangle is 21 cm longer than the width. Find the measurement of the width.	<u>$l - 21$</u>	l = length
5. Find the number of hours in d days.	<u>$24d$</u>	d = number of days
6. Angel is 3 kilograms lighter than Carlo. How heavy is Angel?	<u>$c - 3$</u>	a = weight of Carlo
7. The height of a plant was d inches. After a month, it grew by 8 inches. How tall is the plant now?	<u>$d + 8$</u>	d = height of the plant
8. Jefferson bought 60 meters of rope. If he cuts it into r equal parts, how long is each piece?	<u>$\frac{60}{b}$</u>	b = number of pieces of rope
9. Peter sold 23 second-hand cars last month. This month, he sold m second-hand cars more than last month. How many cars was he able to sell this month?	<u>$m + 23$</u>	m = number of second-hand cars
10. Each pizza is cut into n equal slices. If there are 9 pizzas to be cut, how many slices will there be?	<u>$9n$</u>	n = number of slices in a pizza