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.

	Expression	Variable
John scored 3 more points than James. How many points did John score?	*p* + 3	*p* = number of points James scored

1. Jasmine is three times as old as her brother Michael. How old is Jasmine?

_____   _____

2. Carl has n colored-pens for his artwork. If his mother gives him 11 more colored pens, how many colored-pens does he have in all?

_____   _____

3. Jimmy works 20 days in a month. If he was absent for d days last month, how many days did he work?

_____   _____

4. Sarah has m baskets of mangoes. If she will be able to sell 8 baskets of mangoes, how many baskets of mangoes will be left?

_____   _____

5. Dennis shared his p marbles among his 5 friends. How many marbles did each friend receive?

_____   _____

6. Jenny earns $2 for every dress she manages to sell. How much will she earn for b dresses?

_____   _____

7. Sonny has 12 more playing cards than Jamie. How may playing cards does Sonny have?

_____   _____

8. The width of the rectangle is 12 cm shorter than its length. What is the measurement of the width?

_____   _____

9. Anne bought a laptop for $w after receiving a discount of $15. What is the original price of the laptop?

_____   _____

10. Flynn bought n pairs of socks for a total of $8. How much is each pair of socks?

_____   _____

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The first one is done for you as an example.

	Expression	Variable
John scored 3 more points than James. How many points did John score?	***p* + 3**	***p*** = *number of points James scored*
1. Jasmine is three times as old as her brother Michael. How old is Jasmine?	3m	m = age of Michael
2. Carl has n colored-pens for his artwork. If his mother gives him 11 more colored pens, how many colored-pens does he have in all?	n + 11	n = number of colored pens Carl have
3. Jimmy works 20 days in a month. If he was absent for d days last month, how many days did he work?	20 - d	d= number of days of absent
4. Sarah has m baskets of mangoes. If she will be able to sell 8 baskets of mangoes, how many baskets of mangoes will be left?	m - 8	m = number of basket of mangoes
5. Dennis shared his p marbles among his 5 friends. How many marbles did each friend receive?	$\dfrac{p}{5}$	p = number of marbles
6. Jenny earns $2 for every dress she manages to sell. How much will she earn for b dresses?	$2b	b = number of dress
7. Sonny has 12 more playing cards than Jamie. How may playing cards does Sonny have?	j + 12	j = number of playing cards of Jamie
8. The width of the rectangle is 12 cm shorter than its length. What is the measurement of the width?	l - 12	l = length of the rectangle
9. Anne bought a laptop for $w after receiving a discount of $15. What is the original price of the laptop?	$w + $15	w =discounted price of laptop
10. Flynn bought n pairs of socks for a total of $8. How much is each pair of socks?	$\dfrac{8}{s}$	s = number of pair of socks