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Dividing Polynomials Worksheets

1) Divide $8l^2 + 4l$. by 2l+1

2) Evaluate: $\frac{(35m^2+5m)}{7m \quad +1}$

3) On dividing $12x^8 + 6x^4$ by $6x^4$ we will get $1.5x^{12}$.
   a) True
   b) False

4) $\frac{63q^{12}+49q^{10}-36q}{9q^{12}\_7q^{10}}$=7
   a) True
   b) False

5) $\frac{18k^2+9k+1}{3k+1}$
   a) $7k^2 + 12k$
   b) $49k^2 + 12k$
   c) $6k + 1$
   d) $7k^3 + 12k$

6) By using long division divide the polynomials: $(6a^2-9a-9) \div (2a+3)$.

7) Divide the first polynomial by second: $(-10b^2 - 6b + 6)$, $5b^2+3b$

8) Match the following:

a- $\frac{36w^2-30}{6w^2+5}$	p- $3w^2-8w$
b- $\frac{9w^2+3}{3w^2+1}$	q- $9w^2+1$
c- $\frac{-9w^3+6w^2+48}{-3w-6}$	r- 6
d- $\frac{63w^3+54w^2+7w+6}{7w+6}$	s- 3

9) A rectangle has an area of r^2 -14r and its length is r- 14. Find its width.

10) Base of a triangle is given by 2t+1. If its area is $8t^2+4t$, find its length.

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- Gary Schwartz

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	4l
2)	5m
3)	False
4)	False
5)	c) 6k + 1
6)	3a-9 is the quotient and 18 is a remainder.

7)	-2 is the quotient and 6 is a remainder
8)	a-r b-s c-p d-q
9)	r
10)	8t

FUN FACT

1. If a is the first term of an AP, d is the common difference, n refers to the number of terms, then a_n refers to the general term of the arithmetic sequence given as: $a_n = a + (n-1)d$

2. If we have the first term a, the last term a_n, the number of terms n, then we can find the sum to n terms by the following equation: $S_n = \frac{n}{2}\{a + a_n\}$