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Dividing Polynomials Worksheets

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

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

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- $\frac{-9w^3+6w^2+48}{-3w-6}$

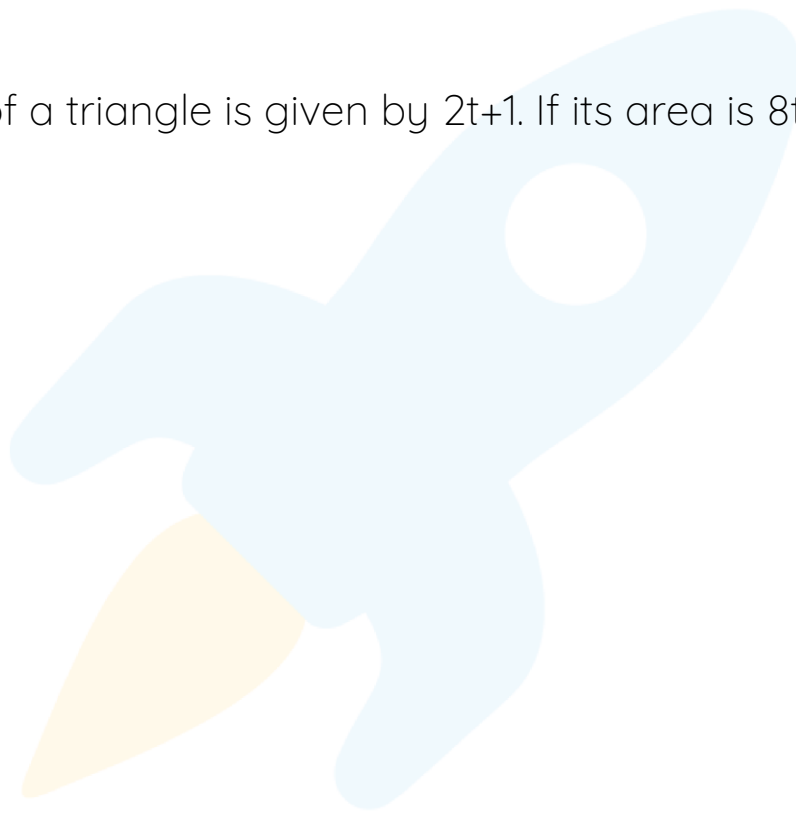
r- 6

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."

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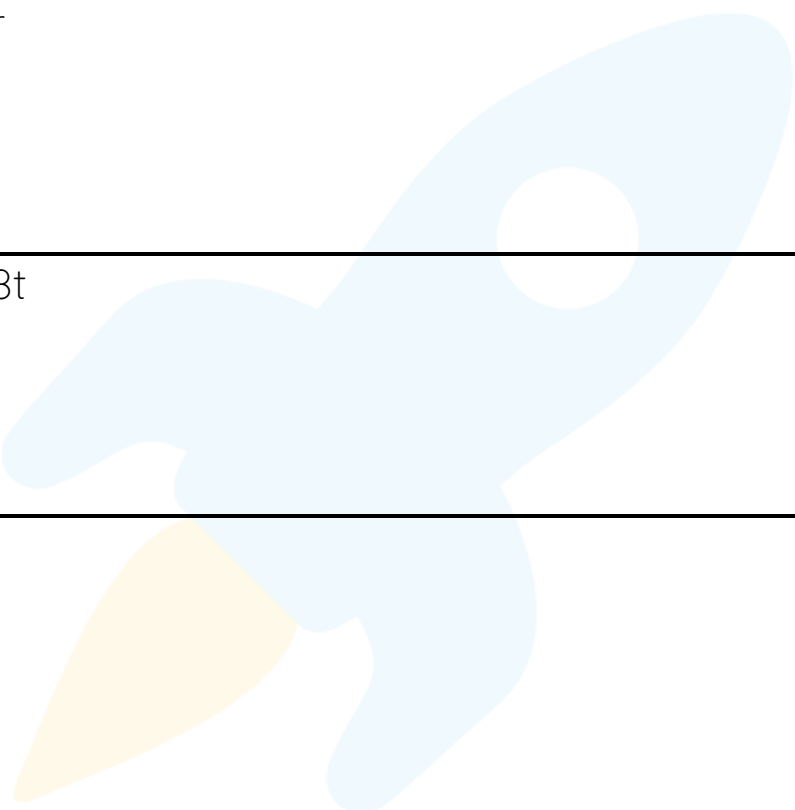
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**ANSWERS**

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: $S_n = \frac{n}{2}\{a + a_n\}$

