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## Dividing Polynomials Worksheets

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

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

3) On dividing  $12t^8 + 6t^4$  by  $6t^4$  we will get  $1.5t^{12}$ .

- a) True
- b) False

4)  $\frac{63r^{12} + 49r^{10} - 36r}{9r^{12} - 7r^{10}} = 7$

- a) True
- b) False

5)  $\frac{18d^2 + 9d + 1}{3d + 1}$

- a)  $7d^2 + 12d$
- b)  $49d^2 + 12d$
- c)  $6d + 1$
- d)  $7d^3 + 12d$

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

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

8) Match the following:

a-  $\frac{36q^2-30}{6q^2+5}$

p-  $3q^2-8q$

b-  $\frac{9q^2+3}{3q^2+1}$

q-  $9a^2+1$

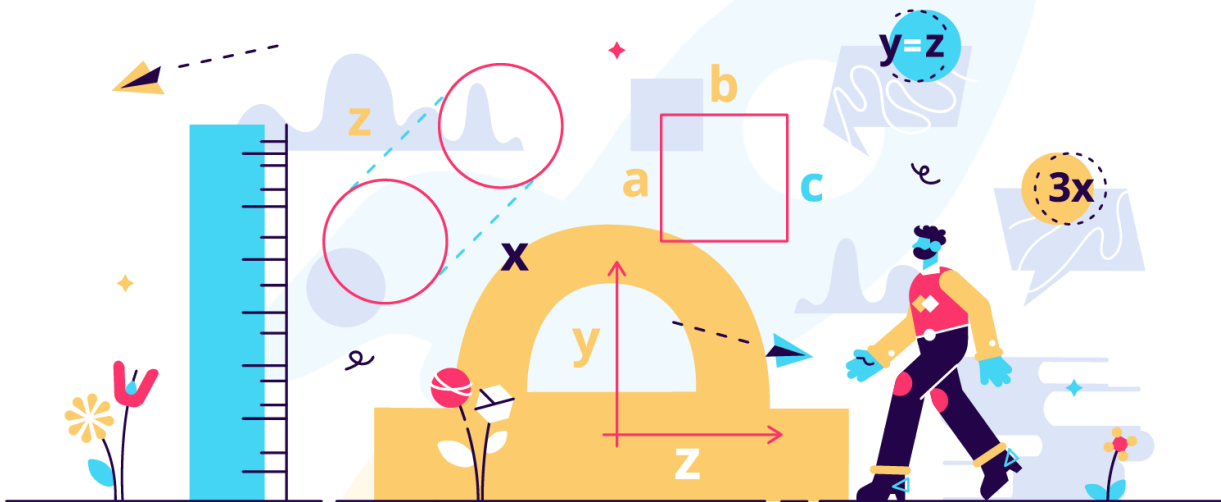
c-  $\frac{-9q^3+6q^2+48}{-3q-6}$

r- 6

d-  $\frac{63a^3+54a^2+7a+6}{7a+6}$

s- 3

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



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

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"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

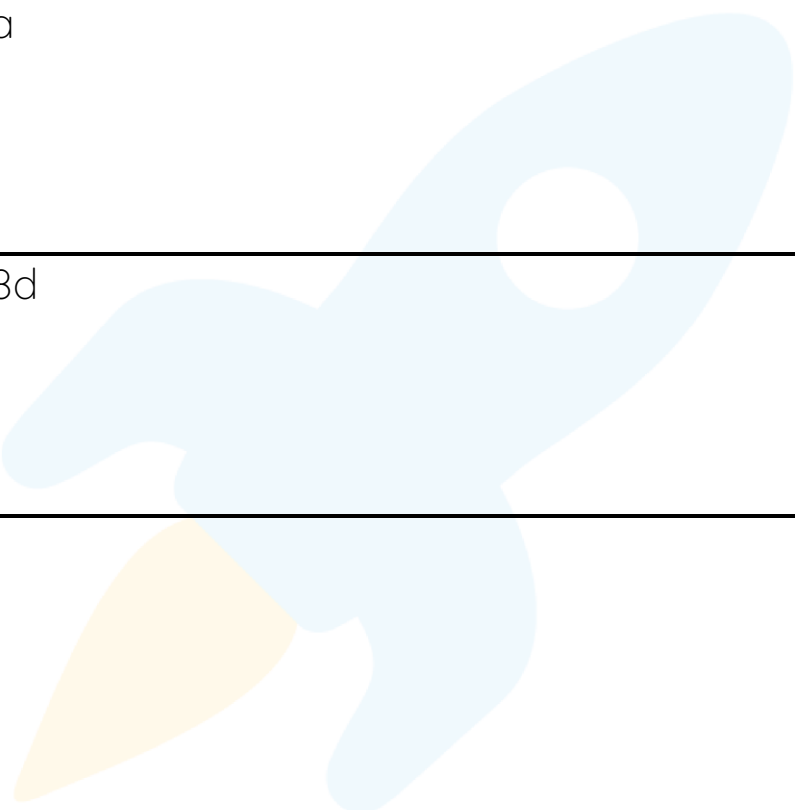
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**ANSWERS**

1)	$4x$ is the quotient.
2)	$5y$
3)	False
4)	False
5)	c) $6d + 1$
6)	$3x - 9$ 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)	a
10)	8d



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

