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Dividing Polynomials Worksheets

1) Divide $q^2 + 7q + 12$. by q+3

2) Evaluate: $\frac{p^2-4p-45}{p-9}$

3) On dividing $18a^8 + 16a^4$ by $4a^4$ we will get $4.5a^{12}$.

a) True

b) False

4) $\frac{64b^8 + 25b^6 - 36b}{8b^8 - 5b^6}$ = 36b

a) True

b) False

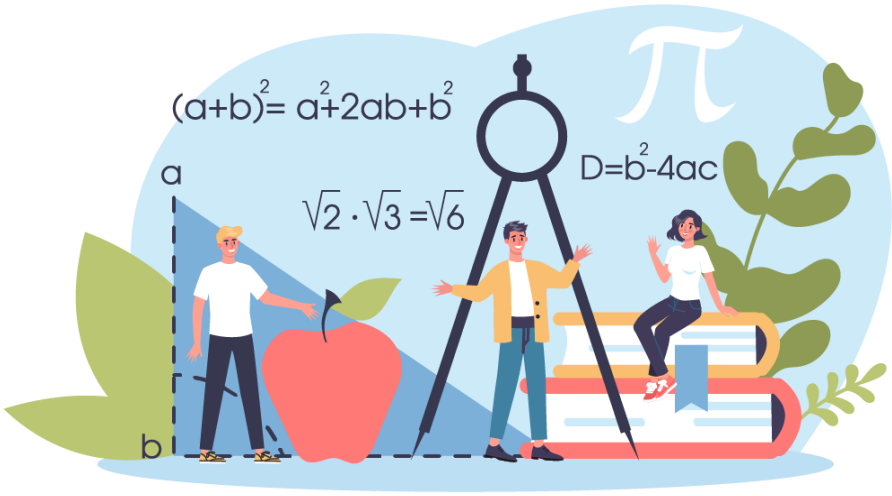
5) $\frac{12d^4 + 24d^3 - 8d}{4d}$

a) $7d^2 + 12d$

b) $49d^2 + 12d$

c) $7d^2 + 84d$

d) $3d^3 + 6d^2 - 2$



6) By using long division divide the polynomials: $(w^2+3w+8) \div (w+3)$.

7) Divide the first polynomial by second: $(r^2 - 6r + 1), (r - 4)$

8) Solve: $(2b^4 + 5b^3 + 5b^2 + 10b + 8) \div (b + 2)$

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

10) Height of a triangle is given by 3t+2. If its area is $6t^2+4t$, find its base.

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- 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)	q+4
2)	P+5
3)	False
4)	False
5)	d) $3d^3 + 6d^2 - 2$
6)	w is the quotient and 8 is a remainder.

7)	r-2 is the quotient and -7 is a remainder.
8)	$2b^3 + b^2 + 3b + 4$
9)	a
10)	2t

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