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Dividing Polynomials Worksheets

1) Divide $y^2 + 7y + 12$ by $y+3$

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

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

- a) True
- b) False

4) $\frac{64a^8 + 25a^6 - 36a}{8a^3 - 5a^6} = 36a$

- a) True
- b) False

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

- a) $7s^2 + 12s$
- b) $49s^2 + 12s$
- c) $7s^2 + 84s$
- d) $3s^3 + 6s^2 - 2$

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

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

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

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

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



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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) | $y+4$ |
| 2) | $u+5$ |
| 3) | False |
| 4) | False |
| 5) | d) $3s^3 + 6s^2 - 2$ |
| 6) | d is the quotient and 8 is a remainder. |

| | |
|-----|--|
| 7) | f-2 is the quotient and -7 is a remainder. |
| 8) | $2g^3 + g^2 + 3g + 4$ |
| 9) | |
| 10) | 2h |

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

