Dividing Polynomials - Shapes

Name _____

Score _____

DP:24

1) Find the base of a parallelogram whose height and area of the rectangle are $3x^3$ and $9x^8 + 3x^6 + 12x^5 + 6x^3$ respectively

_____

2) The area and width of a rectangle are $g^{11}h^9$ and g^2h^5 respectively. What is the breadth of the rectangle?

_____

3) The area of a rectangle is $12m^7$. If the breadth of the rectangle is $6m^6$, find the width of the rectangle.

_____

4) If the base and area of a parallelogram are $3k + 2$ and $9k^2 - 4$ respectively, determine the height of the parallelogram.

_____

5) The area of a parallelogram is $40u^5v^6w^7$. Calculate the base of the parallelogram if its height is $8u^2v^3w^4$.

_____

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Answer key

DP:24

1) Find the base of a parallelogram whose height and area of the rectangle are $3x^3$ and $9x^8 + 3x^6 + 12x^5 + 6x^3$ respectively

$3x^5 + x^3 + 4x^2 + 2$

2) The area and width of a rectangle are $g^{11}h^9$ and g^2h^5 respectively. What is the breadth of the rectangle?

g^9h^4

3) The area of a rectangle is $12m^7$. If the breadth of the rectangle is $6m^6$, find the width of the rectangle.

2m

4) If the base and area of a parallelogram are $3k + 2$ and $9k^2 - 4$ respectively, determine the height of the parallelogram.

$3k - 2$

5) The area of a parallelogram is $40u^5v^6w^7$. Calculate the base of the parallelogram if its height is $8u^2v^3w^4$.

$5u^3v^3w^3$