POLYNOMIALS' perimeter Area volume

worksheet

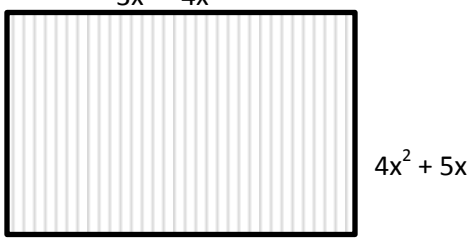
Name:_____

Polynomial Applications:

Perimeter, Area, and Volume

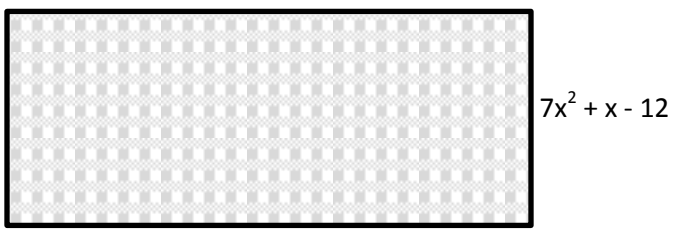
Directions: **Find the PERIMETER of each of the following shapes.**

1.



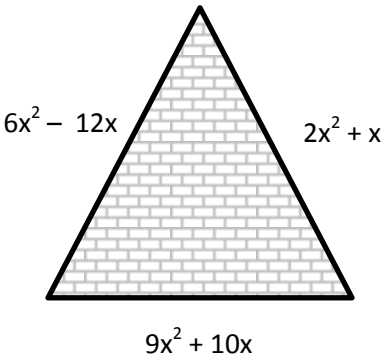
P = _____

2.



P = _____

3.



P = _____

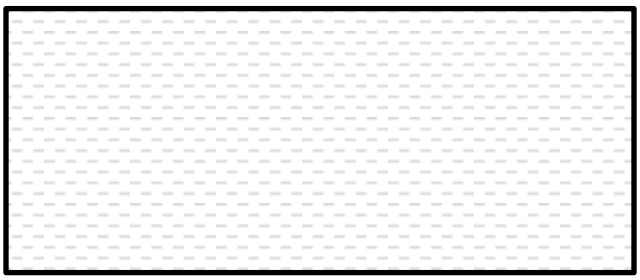
4. The width of a rectangle is 5x – 4. The perimeter of the rectangle is 14x + 4. What is the length of the rectangle?

a. 2x – 6

b. 2x + 6

c. 9x + 8

d. 9x – 8



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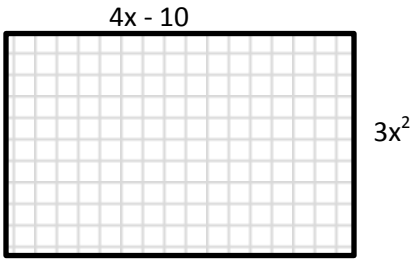
Name:_____

Directions: **Find the AREA of each of the following shapes.**

5.

A = _____

6.



A = _____

7. Length of a rectangle is $4x^2 + 12x$ and the area of the rectangle is $24x^4 + 72x^3$, what is the width of the rectangle?

a. 6

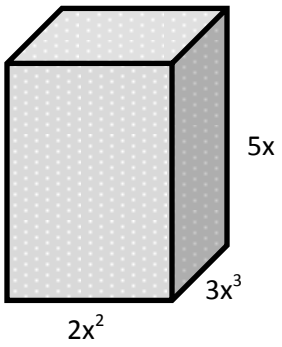
b. 6x

c. $6x^2$

d. $6x^3$

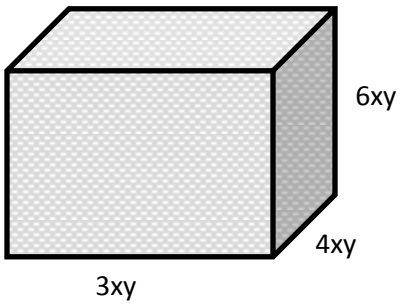
Directions: **Find the VOLUME of the following shapes.**

8.



V = _____

9.



V = _____

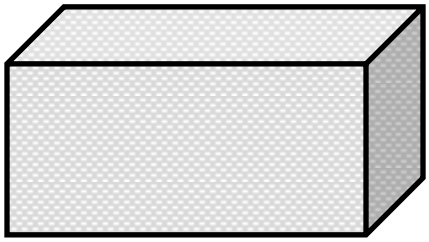
10. If the length of a rectangular prism is $4x^2$, the width is $6x^3$, and the volume is $48x^8$, what is the height of the rectangular prism?

a. $2x^3$

b. $2x^2$

c. 2x

d. 2



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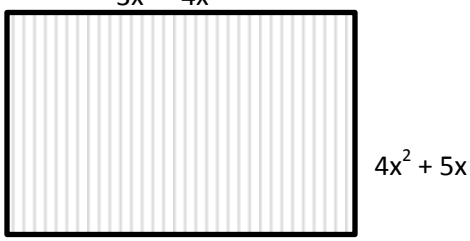
Name:_____

Polynomial Applications: ANSWER KEY

Perimeter, Area, and Volume

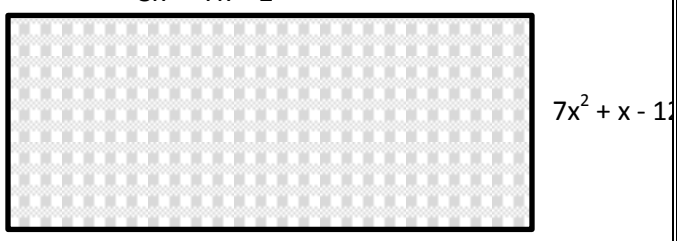
Directions: **Find the PERIMETER of each of the following shapes.**

1.



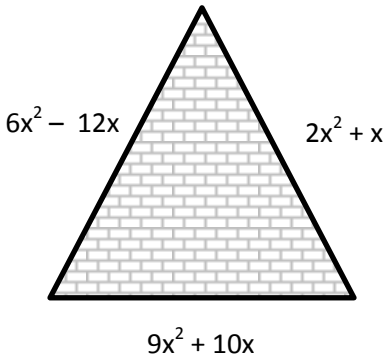
P = $14x^2 + 2x$

2.



P = $20x^2 - 12x - 20$

3.



P = $17x^2 - x$

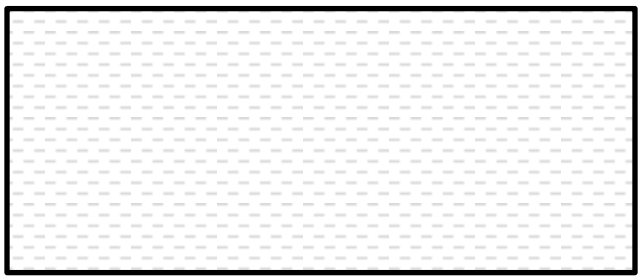
4. The width of a rectangle is 5x – 4. The perimeter of the rectangle is 14x + 4. What is the length of the rectangle?

a. 2x – 6

b. 2x + 6

c. 9x + 8

d. 9x – 8



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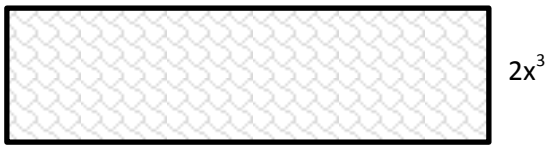
Name:_____

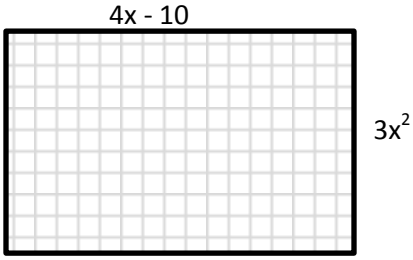
Directions: **Find the AREA of each of the following shapes.**

5.



A = $14x^5 + 8x^4 + 6x^3$

6.



A = $12x^3 - 30x^2$

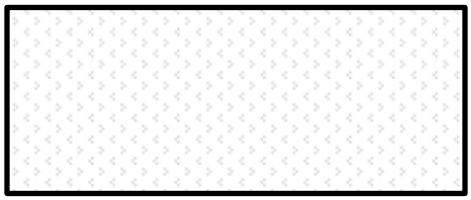
7. Length of a rectangle is $4x^2 + 12x$ and the area of the rectangle is $24x^4 + 72x^3$, what is the width of the rectangle?

a. 6

b. 6x

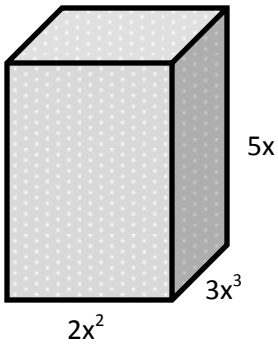
c. $6x^2$

d. $6x^3$



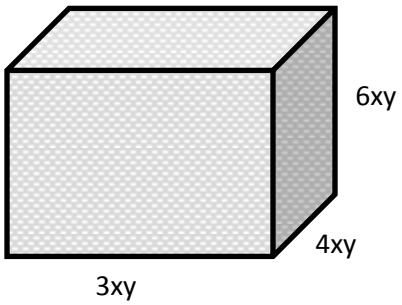
Directions: **Find the VOLUME of the following shapes.**

8.



V =$30x^6$

9.



V = $72x^3y^3$

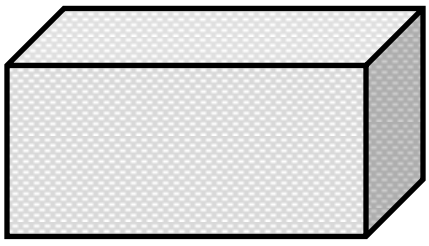
10. If the length of a rectangular prism is $4x^2$, the width is $6x^3$, and the volume is $48x^8$, what is the height of the rectangular prism?

a. $2x^3$

b. $2x^2$

c. 2x

d. 2



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