

*Scrap paper is available but write your final solution clearly in the space provided*

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1. Expand.

a)  $0.3(5c^2 - 0.5c)$

b)  $-0.5(-2w^3 + 6w^2 - 12w + 8)$

c)  $\frac{1}{3}(6x^2y + 18x^2 - 3x + 4y)$

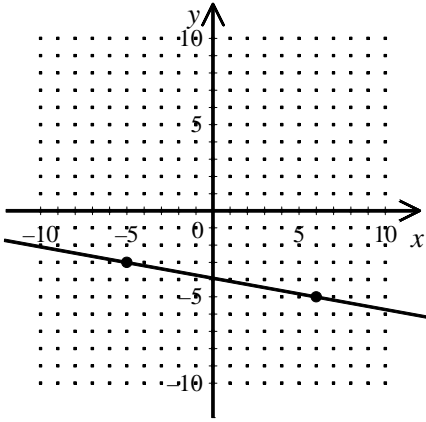
2. Simplify. a)  $(0.5d^3)^2$     b)  $(0.2a^2b)(3ab^2)^3$     c)  $-(0.1k^2)(-11k^3)^2$     d)  $(-3rst^2)^3(2r^2s^3t)^2$

3. Complete the table.

	Cost Price	Markup	Selling Price
a)	\$3.50	20%	
b)	\$12.00	25%	
c)	\$11.70	30%	
d)	\$54.74	15%	

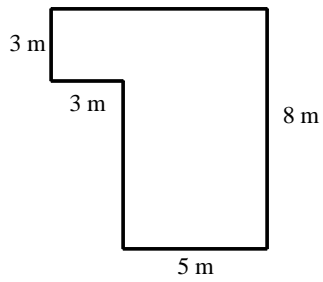
4. The sum of the ages of Petra and her mother is 59. Her mother is 14 years more than twice as old as Petra. How old are Petra and her mother?

5. Find the slope of the line.



6. Identify the next three terms in the sequence. 3, 9, 27, 81, . . .

7. Find the area of the composite shape.



8. Find the value of  $x$ .

