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## COMBINING LIKE TERMS WORKSHEET

1)  $-10x + 4x = \underline{\hspace{2cm}}$

2)  $-2k + 17 - 4k = \underline{\hspace{2cm}}$

3)  $16 - 3(4n+7) = \underline{\hspace{2cm}}$

- 4) Charlotte age is 15 years more than twice the sum of her son's age (in years) and 3. Find her age by combining like terms if her son's age is represented by  $x$ .



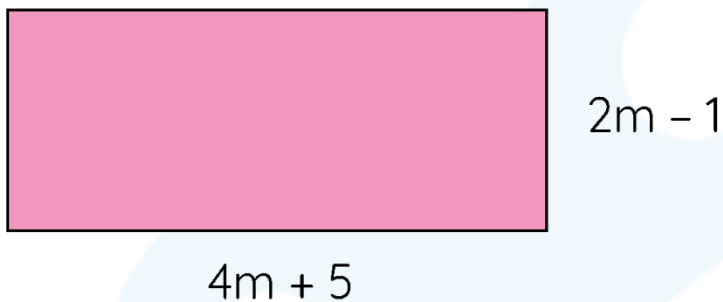
5)  $\frac{y}{8} + 3(y - 2) = \underline{\hspace{2cm}}$

6)  $\left(\frac{3}{5}x - 7\right) + (2x - 5) + \left(-\frac{2}{5}x - 7\right) = \underline{\hspace{2cm}}$

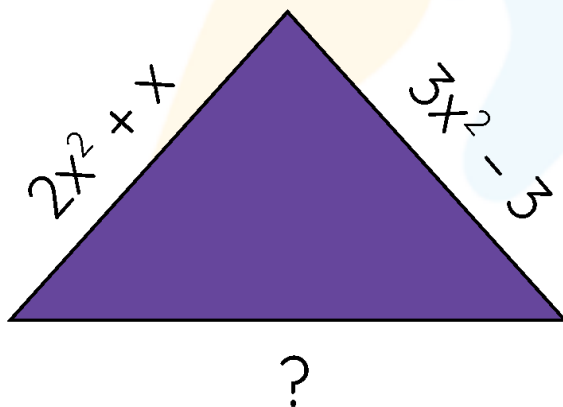
- 7) The length of a rectangular dining table is 3 ft more than twice its width. Find its perimeter in terms of its width. Assume that the width of the table is  $w$  ft.



- 8) Find the perimeter of the following rectangle by combining like terms.



- 9) The perimeter of a triangle is  $3x^2 + 2$  units and its two sides are given in the following figure. Find its third side.



- 10) Find the value of  $\left[(-3m^2 - 4m + 7) + (-5m^2 + 5m - 9)\right] - (7m + 8)$  by combining the like terms.

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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)	$-6x$
2)	$-6k + 17$
3)	$-12n - 5$
4)	$2x + 21$
5)	$\frac{25y}{8} - 6$
6)	$\frac{11}{5}x - 19$
7)	$(6w + 5) \text{ ft}$
8)	$12m + 8$
9)	$-2x^2 - x + 5$
10)	$-8m^2 - 6m - 10$

Solutions:

1.  $-10x + 4x = \underline{\hspace{2cm}}$

Solution:

$$-10x + 4x = (-10 + 4)x = -6x$$

2.  $-2k + 17 - 4k = \underline{\hspace{2cm}}$

Solution:

$$-2k + 17 - 4k = (-2k - 4k) + 17 = -6k + 17$$

3.  $16 - 3(4n + 7) = \underline{\hspace{2cm}}$

Solution:

$$16 - 3(4n + 7) = 16 - 12n - 21 = -12n - 5$$

4. Charlotte age is 15 years more than twice the sum of her son's age (in years) and 3. Find her age by combining like terms if her son's age is represented by  $x$ .

Solution:

$$\text{Charlotte's age} = 15 + 2(x + 3) = 15 + 2x + 6 = 2x + 21.$$

5.  $\frac{y}{8} + 3(y - 2) = \underline{\hspace{2cm}}$

Solution:

$$\frac{y}{8} + 3(y - 2) = \frac{y}{8} + 3y - 6 = \frac{25y}{8} - 6$$

6.  $\left(\frac{3}{5}x - 7\right) + (2x - 5) + \left(-\frac{2}{5}x - 7\right) = \text{-----}$

Solution:

$$\begin{aligned} & \left(\frac{3}{5}x - 7\right) + (2x - 5) + \left(-\frac{2}{5}x - 7\right) \\ &= \left(\frac{3}{5}x + 2x - \frac{2}{5}x\right) + (-7 - 5 - 7) \\ &= \frac{11}{5}x - 19 \end{aligned}$$

7. The length of a rectangular dining table is 3 ft more than twice its width. Find its perimeter in terms of its width. Assume that the width of the table is  $w$  ft.

Solution:

The width of the table =  $w$  ft.

The length of the table,  $l = 2w + 3$  ft.

The perimeter is,

$$\begin{aligned} 2l + 2w &= 2(2w + 3) + 2w \\ &= 4w + 6 + 2w \\ &= (6w + 6)\text{ft} \end{aligned}$$

Thus, the perimeter of the table =  $(6w + 5)$  ft.

8. Find the perimeter of the following rectangle by combining like terms.



$2m - 1$

$4m + 5$



Solution:

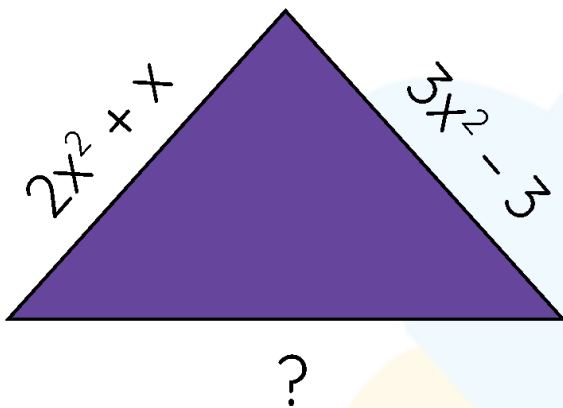
The length of the rectangle is  $l = 4m + 5$

The width of the rectangle is  $w = 2m - 1$

The perimeter is,

$$\begin{aligned} 2(l + w) &= 2(4m + 5 + 2m - 1) \\ &= 2(6m + 4) \\ &= 12m + 8 \end{aligned}$$

9. The perimeter of a triangle is  $3x^2 + 2$  units and its two sides are given in the following figure. Find its third side.



Solution:

To find the third side, it is sufficient to subtract the sum of the two given sides from the perimeter.

$$\begin{aligned} &(3x^2 + 2) - [(2x^2 + x) + (3x^2 - 3)] \\ &= (3x^2 + 2) - (5x^2 + x - 3) \\ &= 3x^2 + 2 - 5x^2 - x + 3 \\ &= -2x^2 - x + 5 \end{aligned}$$

10. Find the value of

$\left[ (-3m^2 - 4m + 7) + (-5m^2 + 5m - 9) \right] - (7m + 8)$  by combining the like terms.



Solution:

$$\begin{aligned}& \left[ (-3m^2 - 4m + 7) + (-5m^2 + 5m - 9) \right] - (7m + 8) \\&= (-8m^2 + m - 2) - (7m + 8) \\&= -8m^2 + m - 2 - 7m - 8 \\&= -8m^2 - 6m - 10\end{aligned}$$



**FUN FACT**

1. The variable(s) parts of like terms are the same.
2. For example,  $3xyz$  and  $-4xyz$  are like terms.
3. For adding or subtracting two or more terms, they must be like terms. For example, we cannot add (or simplify)  $2x + 2$  further as  $2x$  and  $2$  are NOT like terms.
4. To add or subtract like terms, we will just add or subtract their coefficients.

