

MONDAY HOMEWORK

Determine the constant of proportionality ($\frac{y}{x}$) for each table. Express your answer as $y=kx$

1. For every can of paint you could paint _____bird houses.

| | | | | | |
|---------------------|----|----|----|----|---|
| Cans of paint | 5 | 10 | 6 | 9 | 2 |
| Bird houses painted | 15 | 30 | 18 | 27 | 6 |

2. Every chocolate bar has _____calories

| | | | | | |
|----------------|-------|-----|-------|-----|-------|
| Chocolate bars | 6 | 4 | 10 | 3 | 8 |
| Calories | 1,212 | 808 | 2,020 | 606 | 1,616 |

3. For every lawn mowed _____dollars were earned.

| | | | | | |
|----------------|-----|-----|-----|-----|-----|
| Lawns mowed | 7 | 6 | 10 | 3 | 4 |
| Dollars earned | 301 | 258 | 430 | 129 | 172 |

Determine if the values in the tables are proportional (yes) or not (no).

| X | Y | | X | Y |
|-----|-----|--|----|---|
| -70 | -10 | | 9 | 3 |
| -56 | -8 | | 36 | 6 |
| -14 | -2 | | 64 | 8 |
| -7 | -1 | | 81 | 9 |

TUESDAY HOMEWORK

Find the final cost of the item(s).

1. Computer \$899.99, 10% discount, 5% sales tax, final cost _____

2. Vacuum, \$129.99, 15% discount, 4% sales tax, final cost _____
3. Boots, \$39.99, 25% discount, 6% sales tax, final cost_____
4. Phone, \$64.99, 75% discount, 8% sales tax, final cost_____
5. Necklace, \$39.97, 55% discount, 5% sales tax, final cost_____

WEDNESDAY HOMEWORK

1. A sweater originally priced at \$50 is on sale for 30% off with a 7.5% sales tax. What is the **final price** of the sweater?
2. You can buy your favorite crackers and a 10 ounce box for \$2.69 or a 1 pound box for \$3.28. Which is a better buy? **Explain.**

Evaluate each expression:

3. $\frac{2 \cdot 4 - 6(2 + 1)}{1 - 3 \cdot 2}$

4. $\frac{2 \cdot 6 - (4 + 2)}{(-2 - 4 - 6) \div (2 - 1)}$

5. $\frac{3 \cdot 2 \div 6 + 2 \cdot 3 + 6}{3 + 2 + 1}$

THURSDAY HOMEWORK

1. You are paid \$47.25 for working 7 hours. What is your hourly rate? How much would you be paid for working a 40 hour week?
2. Identify which set of ordered pairs show a proportional relationship and which one does not. **Explain how you know.**
 - a. (0,0) (2,6) (4,12) (6,18)
 - b. (0,4) (2,10) (4,16) (6,22)
3. Ayanna runs 1600 meters and 5 minutes 30 seconds, and Kelsey runs 800 meters and 2 minutes 40 seconds. Who has the faster average speed? **Explain your reasoning.**
4. $-2.7 - (-\frac{4}{5})$