

Name: _____

WEEK 20 HW

Solve the following problems without a calculator. You MUST show your work. **NO WORK = NO CREDIT.**

Homework – Monday

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| <p>1. What is the value?</p> $-2 [4^2 + (\frac{1}{2})^2]$ | <p>2. A city's daily low temperatures in January fluctuated between -7°F and 2°F. What was the temperature range?</p> |
| <p>3. Mrs. Martin divided 5 dozen flowers into 3 baskets to give as presents. The first basket had $(x+8)$ flowers, the second basket had $(2x)$ flowers, and the third basket had $(x+12)$ flowers. How many flowers were in the basket that had the most flowers?</p> | <p>4. A 20-foot piece of rope will be cut into as many $1\frac{1}{2}$-foot sections as possible. How much rope will be left over?</p> |

Homework- Tuesday

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| <p>1. Which set contains only ordered pairs that satisfy the equation $y = 2x+3$?</p> <p>A. $\{(0,2), (1,3), (2,4)\}$ B. $\{(0,2), (1,5), (2,8)\}$ C. $\{(0,3), (1,4), (2,5)\}$ D. $\{(0,3), (1,5), (2,7)\}$</p> | <p>2. What is the solution for the inequality?</p> $-3w + 3 \geq 18$ |
| <p>3. A music store is having a clearance sale. All items are discounted by 20%. Sales tax is 6%. What is the price of a radio that regularly costs \$38?</p> | <p>4. Simplify.</p> $6(a - 2b) - 3(4a - b)$ |

Homework - Wednesday

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| <p>1. The manufacturer's price for a tent is \$28.50. A camping store that bought the tent sells them for \$40.76. What was the percent of increase in the price of the tents? (Round to the nearest percent.)</p> | <p>2. In a group of 20 students, there are 12 girls. What is the ratio of boys to girls?</p> |
| <p>3. CJ is making pancakes. The recipe asks for $\frac{3}{4}$ cup flour to make 4 servings. How much flour is needed to make 1 serving?</p> | <p>4. Ernesto spent \$34.00 for 12 gallons of gasoline. At the same price per gallon, how many gallons could he buy for \$51.00?</p> |

Homework - Thursday

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| <p>1. The ratio of the dimensions of a rectangular picture is 5:4. The shorter dimension is $6\frac{1}{2}$ inches. What is the longer dimension? (Round to the nearest tenth.)</p> | <p>2. The diameter of a circle is 12 cm. What is the area of the circle in centimeters? Use 3.14 for pi.</p> |
| <p>3. The complement of an angle is two more than three times the angle. Find the measure of the angle and its complement.</p> | <p>4. What is the volume of a cylinder with a radius of 5cm and height of 10cm? Use 3.14 for pi.</p> |