

Math 7/7+ Spiral 5 Review

Due: 8/11

Complete all problems showing ALL work in proper answersheet format. NO WORK=NO CREDIT

- Simplify: $2 + y + y + y + y + y + 3$?
- Which of the following equations is an example of the distributive property?
 - $r(s + t) = rs + rt$
 - $a(bc) = (ab)c$
 - $x + (y + z) = (x + y) + z$
 - $b(c + d) = b(d + c)$
- Four students wrote expressions using the variable t below. If t represents a positive integer, whose expression has the greatest value?

Student	Expression
Angelo	$-5(12t + 9)$
Brian	$2(6t - 8)$
Chrissy	$-6(-2t + 18)$
Devon	$-4(-3t - 2)$

- Angelo
 - Brian
 - Chrissy
 - Devon
- Simplify: $24m - 135m \div (-3)^3$
 - Dennis is going to purchase x tickets to a school play at a cost of \$8.00 each. He remembers a coupon he was given that will reduce the total ticket cost by \$0.50. Since Dennis is a member of the school faculty, the total cost of the tickets after the coupon reduction will be reduced by an additional 25%. The total amount, in dollars, that Dennis will spend to purchase x tickets, with the given reductions, can be represented by the expression below.

$$\left(8x - \frac{1}{2}\right) - \frac{1}{4}\left(8x - \frac{1}{2}\right)$$

Which of the following is an equivalent expression?

- $6x$
 - $6x - \frac{1}{4}$
 - $6x - \frac{3}{8}$
 - $6x - \frac{5}{8}$
- Gina bought 4 bags of grapes that weighed 2.29 pounds each. The grapes were priced at \$2.50 per pound. The expression below represents the total cost of the bags of grapes Gina bought, in dollars.

$$(2.29 \times 2.50) \times 4$$

Which expression below is also equivalent to the total cost of the grapes?

- $(2.29 + 4) \times 2.50$
 - $4 \times (2.50 + 2.29)$
 - $(2.29 \times 4) + 2.50$
 - $2.29 \times (2.50 \times 4)$
- What is $\left|-\frac{2}{3}\right| + \frac{5}{6} + \left(-\frac{1}{4}\right)$ in simplest form?
 - Fred used a number line to find the value of $(-3) + (-5)$. Which of these number lines did he use?



