Evaluate the following using Mental Math and then check with the calculator.

$$\sqrt{1}$$
. $(-3)^2 + (-4)(-9) = 1$

2.
$$|-4.3 - (-7.2)| =$$

1.
$$(-3)^2 + (-4)(-9) =$$
 2. $|-4.3 - (-7.2)| =$ 3. $\frac{2}{5} - \frac{1}{15} =$

4.
$$\frac{(-3)^3}{-9} =$$

4.
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 6. $\frac{2}{3} \cdot \frac{5}{9} =$

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$$\frac{2}{3} \cdot \frac{5}{9} =$$

Use the Distributive Property to Expand the following.

7.
$$-6(-3x-2)$$

8.
$$\frac{2}{3}(6x - 9y)$$

9.
$$-(-2x-y+10z)$$

Match the following property with its example.

_____ 10. Additive Identity

A.
$$-7 \cdot 1 = -7$$

_____ 11. Additive Inverse

B.
$$4 + 0 = 4$$

_____ 12. Multiplicative Identity

C.
$$\frac{3}{4} \cdot \frac{4}{3} = 1$$

_____ 13. Multiplicative Inverse

$$D. \quad \frac{1}{3} + \left(-\frac{1}{3}\right) = 0$$

Solve the following Word Problem.

14. When Jeremy woke up in the morning the temperature was 65° F. Throughout the day the temperature rose 8° F, then fell 1° F, the rose 5° F, and finally fell 10° F. What was the final temperature at the end of the day?

Evaluate the following using Mental Math and then check with the calculator.

1.
$$(-3)^2 + (-4)(-9) = 45$$

2.
$$|-4.3 + 7.2\rangle| = \frac{2.9}{5}$$

3. $\frac{2}{5} - \frac{1}{15} = \frac{1}{3}$

3.
$$\frac{2}{5} - \frac{1}{15} = \frac{1}{3}$$

$$\frac{6}{15} - \frac{1}{15} = \frac{5}{15} \stackrel{?}{=} \frac{5}{3}$$

4.
$$\frac{(-3)^3}{-9} = 3$$

5.
$$12 \div (-4) - 5 \div (-10) = 3\frac{1}{2}$$
6. $\frac{2}{3} \cdot \frac{5}{9} = \frac{10}{27}$
7. $\frac{10}{2} \cdot \frac{10}{2} \cdot$

$$6. \frac{2}{3} \cdot \frac{5}{9} = \frac{27}{27}$$

$$\frac{2}{9} \cdot \frac{5}{9} = \frac{10}{27}$$

Use the Distributive Property to Expand the following.

7.
$$-6(-3x-2)$$

8.
$$\frac{2}{3}(6x - 9y)$$

$$9. -1(-2x-y+10z)$$

Match the following property with its example.

10. Additive Identity

A. $-7 \cdot 1 = -7$

11. Additive Inverse

B. 4 + 0 = 4

A 12. Multiplicative Identity

C. $\frac{3}{4} \cdot \frac{4}{3} = 1$

_ 13. Multiplicative Inverse

D. $\frac{1}{3} + \left(-\frac{1}{3}\right) = 0$

Solve the following Word Problem.

14. When Jeremy woke up in the morning the temperature was 65° F. Throughout the day the temperature rose 8° F, then fell 1° F, the rose 5° F, and finally fell 10° F. What was the final temperature at the end of the day?

$$65 + 8 - 1 + 5 - 10$$
 $73 - 1 + 5 - 10$
 $72 + 5 - 10$
 $77 - 10$