

Unit 2: Part I Quiz Review
Acc

Name _____

$$\textcircled{1} \frac{1}{5} [(-2 + 8 \cdot 3) - 5^3 - (2^3 - 2)]$$

$$\textcircled{2} \frac{-15 + \frac{12}{-4} - (-9)}{-2^0 + 5 - 2^2 + \frac{6}{2}}$$

* Estimate $\sqrt{136}$. Show your work.

Evaluate if $a = -4$, $b = -3$

1) $-ab$

⑨ $-(ab)$

2) $-a^2$

⑩ $-a + (-b)$

3) $-b^3$

⑪ $5a^3 + 2a$

4) $(ab)^2$

⑫ $-3b^2 - b^3$

5) $\frac{ab}{-a}$

⑬ $-ba^3 + b^3$

6) a^2b^3

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$$\textcircled{1} \frac{1}{5} [(-2 + 8 \cdot 3) - 5^3 - (2^3 - 2)]$$

$$\frac{1}{5} (-2 + 24) - 125 - (8 - 2)$$

$$\frac{1}{5} (22 - 125 - 6)$$

$$\frac{1}{5} (-109)$$

$$\frac{1}{5} \cdot \frac{-109}{1} = \frac{-109}{5} = \boxed{-21\frac{4}{5}}$$

$$\textcircled{2} \frac{-15 + \frac{12}{-4} - (-9)}{-2^0 + 5 - 2^2 + \frac{6}{2}} = \frac{-15 + (-3) + 9}{-1 + 5 - 4 + 3} = \frac{-18 + 9}{3} = \frac{-9}{3} = \boxed{-3}$$

* Estimate $\sqrt{136}$. Show your work.

$$\sqrt{121} = 11$$

between 11 and
12

$$\sqrt{144} = 12$$

Evaluate if $a = -4, b = -3$

3) $-ab$

$$(-1)(-4)(-3)$$

$$\boxed{-12}$$

9) $-(ab)$

$$(-1)[(-4)(-3)]$$

$$(-1)(12)$$

$$-12$$

4) $-a^2$

$$(-1)(-4)(-4)$$

$$\boxed{-16}$$

10) $-a + (-b)$

$$(-1)(-4) + [(-1)(-3)]$$

$$4 + 3$$

$$\boxed{7}$$

5) $-b^3$

$$(-1)(-3)(-3)(-3)$$

$$\boxed{27}$$

11) $5a^3 + 2a$

$$5(-4)(-4)(-4) + 2(-4)$$

$$-320 - 8$$

$$\boxed{-328}$$

6) $(ab)^2$

$$[(-4)(-3)]^2 = 12^2 = \boxed{144}$$

12) $-3b^2 - b^3$

$$(-3)(-3)(-3) - (-3)(-3)(-3)$$

$$-27 - (-27)$$

$$0$$

7) $\frac{ab}{-a}$

$$\frac{(-4)(-3)}{(-1)(-4)} = \frac{12}{4} = \boxed{3}$$

8) a^2b^3

$$(-4)(-4)(-3)(-3)(-3)$$

$$\boxed{-432}$$

How many $(-6)(-4)(-4)(-4) + (-3)(-3)(-3)$ *
 $(-6)(-4)(-4)(-4) + (-3)(-3)(-3)$

$$(-6)(-4)(-4)(-4) + (-3)(-3)(-3)$$

$$384 + -27$$

$$\boxed{357}$$