**Word Problems**

1. The deepest recorded dive is 500m for an emperor penguin and 2000m for a sperm whale. How many times as deep does a sperm whale dive compared to an emperor penguin?

2. For 4 hours, the temperature in Victoria fell by 2°C each hour. What was the total change in temperature?

**Evaluate:**

a) -8 ÷ 2(-3+5) – (-5)

Which two integers have a product of +20 and a quotient of +5?

Which two integers have a product of −18 and a quotient of −2?

Which two integers have a product of +4 and a quotient of +4?

**Let’s try it in words…..**

Is resultant quotient is positive or negative?

a)(negative number) ÷ (positive number) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b)** (positive number) ÷ (positive number) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c)** (negative number) ÷ (negative number) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**d)** (positive number) ÷ (negative number) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Calculate

**a)** (+56) ÷ (−7) =

**b)** (−45) ÷ (−15) =

**c)** (−36) ÷ (+12) =

**d)** (+60) ÷ (+10) =

The Sign Rule:

*The quotient of two integers with the same sign is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*The quotient of two integers with different signs is:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Dividing Integers**

What division statements do these represent?



