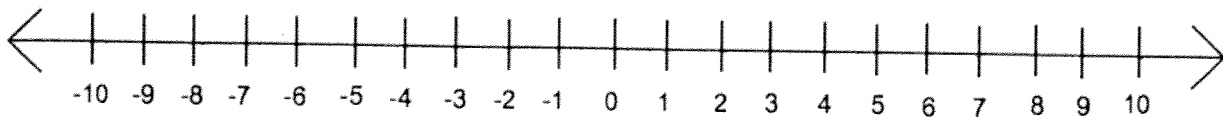


MPM1DI: UNIT 1 – Rational Numbers and Exponents
Lesson 1: Course Introduction and Review of Integers and Fractions

● Recall: Integers are positive and negative whole numbers, including 0.



Adding/Subtracting Integers

Add/subtract the following:

1. a) $20 + (+2)$

b) $-6 + (+4)$

2. a) $5 - (+6)$

b) $-9 + (-3)$

● 3. a) $20 - (-10)$

b) $-18 - (-6)$

Summary Rules

Multiplying/Dividing Integers

Multiply/divide the following:

1. a) $20(2)$

b) $6 \div 2$

2. a) $5(-6)$

b) $\frac{-9}{3}$

3. a) $-20(-10)$

b) $\frac{-45}{-15}$

Summary Rules

Exponents

Evaluate (*calculate the final answer*):

1. a) 5^2

b) 5^3

2. a) $(-5)^2$

b) $(-5)^3$

c) $(-6)^4$

d) $(-3)^7$

Summary Rules

Order of Operations

B

E

D

M

A

S

Examples

1. a) $15 \div 5 \times 6 + 3^2$

b) $35 \div 7 + 4 \times 4 - (-5)^2$

c) $5^2 + 6 \times 7 - (3 - 1)$

d) $(17 - 5 + 3 \times 2) \div 3$

* equals signs at the beginning of each line!!

Homework: p.18 [#1, 3, 5] (odd) p.19 #1-8 (odd) p.20 #1, 2 (odd) p.14 #1-8 (odd)