

1.4 – Multiplying and Dividing Integers

Rules for Multiplying and Dividing Integers

Same Signs:

$$+ \cdot + = +$$

$$- \cdot - = +$$

Different Signs:

$$+ \cdot - = -$$

$$- \cdot + = -$$

Examples:

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

$$12$$

$$2. (-5)(-4)(2)(-1)$$

$$\frac{20(2)(-1)}{40(-1)}$$

$$-40$$

$$4. \frac{-42}{6}$$

$$-7$$

$$3. -18 \div 9$$

$$-2$$

$$5. \frac{-8}{-18}$$

$$\frac{4}{9}$$

$$6. 24 \left(\frac{-1}{8} \right)$$

$$\frac{-24}{8}$$

$$-3$$

$$7. \left(\frac{-1}{3} \right) \left(\frac{1}{2} \right) (-36)$$

$$\frac{-1}{6} (-36)$$

$$\frac{36}{6} = 6$$

$$8. 8 \div \left(\frac{-1}{2} \right)$$

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

$$\frac{16}{-1}$$

$$-16$$

$$9. \frac{-6}{1} \div \frac{1}{6}$$

$$-6 \cdot \left(-\frac{6}{1} \right)$$

$$\frac{36}{1} = 36$$

$$10. \left(\frac{-1}{4} \right) \div \left(\frac{1}{12} \right)$$

$$-\frac{1}{4} \cdot \frac{12}{1}$$

$$\frac{-12}{4} = -3$$

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