

Calculations with negative numbers

Outcome 1 - Adding negatives

Examples...

$$-3 + 5 = 2 \quad \text{Start at -3...} \\ \text{...go UP by 5!}$$

$$-4 + 9 = 5 \quad \text{Start at -4...} \\ \text{...go UP by 9!}$$

$$-7 + 2 = -5 \quad \text{Start at -7...} \\ \text{...go UP by 2!}$$

Questions...

$$1 \quad -1 + 4$$

$$2 \quad -3 + 8$$

$$3 \quad -5 + 9$$

$$4 \quad -4 + 6$$

$$5 \quad -2 + 5$$

$$6 \quad -6 + 5$$

$$7 \quad -6 + 4$$

$$8 \quad -8 + 5$$

$$9 \quad -7 + 1$$

$$10 \quad -3 + 3$$

Outcome 2 - Subtracting negatives

Examples...

Start at 5...go DOWN by 6!

$$5 - 6 = -1$$

Start at 3...go DOWN by 7!

$$3 - 7 = -4$$

Start at -6...go DOWN by 4!

$$-6 - 4 = -10$$

Questions...

$$1 \quad 4 - 6$$

$$2 \quad 2 - 5$$

$$3 \quad 3 - 4$$

$$4 \quad 1 - 7$$

$$5 \quad 0 - 9$$

$$6 \quad 7 - 9$$

$$7 \quad -4 - 5$$

$$8 \quad -3 - 2$$

$$9 \quad -9 - 1$$

$$10 \quad -6 - 3$$

Outcome 3 - Multiplying negatives

Examples...

Positive $\times$ Negative = NEGATIVE!

Negative $\times$ Positive = NEGATIVE!

$$4 \times (-2) = -8$$

$$-7 \times 3 = -21$$

$$6 \times (-6) = -36$$

Questions...

$$1 \quad 2 \times (-5)$$

$$2 \quad 6 \times (-1)$$

$$3 \quad -4 \times 4$$

$$4 \quad 6 \times (-4)$$

$$5 \quad 5 \times (-6)$$

$$6 \quad -3 \times 8$$

$$7 \quad -8 \times 7$$

$$8 \quad 9 \times (-9)$$

$$9 \quad -10 \times 4$$

$$10 \quad -8 \times 6$$

Outcome 4 - Dividing negatives

Examples...

Positive $\div$ Negative = NEGATIVE!

Negative $\div$ Positive = NEGATIVE!

$$12 \div (-4) = -3$$

$$-54 \div 6 = -9$$

$$32 \div (-8) = -4$$

Questions...

$$1 \quad 18 \div (-2)$$

$$2 \quad 24 \div (-6)$$

$$3 \quad -9 \div 3$$

$$4 \quad 8 \div (-1)$$

$$5 \quad 35 \div (-7)$$

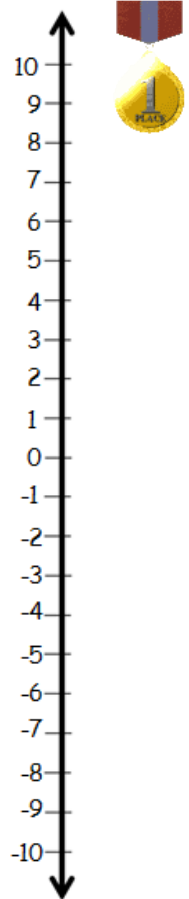
$$6 \quad -72 \div 9$$

$$7 \quad -48 \div 8$$

$$8 \quad 36 \div (-4)$$

$$9 \quad -50 \div 5$$

$$10 \quad -64 \div 8$$



Outcome 1 Answers

- | | | | |
|----|----|-----|----|
| 1. | 3 | 2. | 5 |
| 3. | 4 | 4. | 2 |
| 5. | 3 | 6. | -1 |
| 7. | -2 | 8. | -3 |
| 9. | -6 | 10. | 0 |

Outcome 2 Answers

- | | | | |
|----|-----|-----|----|
| 1. | -2 | 2. | -3 |
| 3. | -1 | 4. | -6 |
| 5. | -9 | 6. | -2 |
| 7. | -9 | 8. | -5 |
| 9. | -10 | 10. | -9 |

Outcome 3 Answers

- | | | | |
|----|-----|-----|-----|
| 1. | -10 | 2. | -6 |
| 3. | -16 | 4. | -24 |
| 5. | -30 | 6. | -24 |
| 7. | -56 | 8. | -81 |
| 9. | -40 | 10. | -48 |

Outcome 4 Answers

- | | | | |
|----|-----|-----|----|
| 1. | -9 | 2. | -4 |
| 3. | -3 | 4. | -8 |
| 5. | -5 | 6. | -8 |
| 7. | -6 | 8. | -9 |
| 9. | -10 | 10. | -8 |