

## Signed Numbers

### Collecting together

$$\begin{aligned} \text{Ex} \quad -3 - 5 + 1 - 2 + 8 + 4 - 7 &= -4 \\ -3 - 5 - 2 - 7 + 1 + 8 + 4 & \\ -17 + 13 & \end{aligned}$$

### Exercise

$$1) \quad +7 - 2 = +5$$

$$2) \quad -3 + 8 = +5$$

$$3) \quad -7 - 6 = -13$$

$$4) \quad -9 + 2 = -7$$

### Resolving double signs

$$++ \rightarrow +$$

$$+- \rightarrow -$$

$$-+ \rightarrow -$$

$$-- \rightarrow +$$

### Examples

$$\begin{aligned} 1) \quad (+6) - (-3) & \\ +6 + 3 & = +9 \end{aligned}$$

$$\begin{aligned} 2) \quad (-7) - (+8) & \\ -7 - 8 & = -15 \end{aligned}$$

### Exercise

$$1) \quad (-8) - (-10) = -8 + 10 = +2$$

$$2) \quad (+5) + (-9) = +5 - 9 = -4$$

$$3) \quad (+1) - (+7) = +1 - 7 = -6$$

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### Multiplication and Division

+	x	+	→	+		+	÷	+	→	+
+	x	-	→	-		+	÷	-	→	-
-	x	+	→	-		-	÷	+	→	-
-	x	-	→	+		-	÷	-	→	+

### Examples

$$1) \quad (-3) \times (-5) = +15$$

$$2) \quad (-12) \div (+4) = -3$$

$$3) \quad (+8) \times (-2) = -16$$

$$4) \quad (+20) \div (+4) = +5$$

### Exercise

$$1 \quad (-6) \times (+3) = -18$$

$$2 \quad (-21) \div (-7) = +3$$

$$3 \quad (+8) \times (+5) = +40$$

$$4 \quad (+10) \div (-2) = -5$$