

Math Practice Sheets

Steps toward Algebra

Student Name

Examples

Practice Questions

Extra Challenge Unit



Example

Mental Math means "doing math in your head". You can learn to solve some problems very quickly without paper and pencil. Many mental math strategies use number properties that you already know.

- Evaluate: $32 + 14 + 8 + 46$

$$\begin{aligned} & 32 + 14 + 8 + 46 && \text{Look for the sums that are multiples of 10.} \\ = & 32 + 8 + 14 + 46 && \text{Use the commutative property.} \\ = & (32 + 8) + (14 + 46) && \text{Use the associative property to make groups of} \\ & && \text{compatible numbers.} \\ = & 40 + 60 && \text{Use mental math to add.} \\ = & 100 \end{aligned}$$

- Evaluate: $5 \times 39 \times 2$

$$\begin{aligned} & 5 \times 39 \times 2 && \text{Look for the products that are multiples of 10.} \\ = & 39 \times 5 \times 2 && \text{Use the commutative property.} \\ = & 39 \times (5 \times 2) && \text{Use the associative property to group compatible number} \\ = & 39 \times 10 && \text{Use mental to multiply.} \\ = & 390 \end{aligned}$$

Note that you can use compensation to create compatible numbers that are easy to compute mentally.

$$\begin{aligned} & 8 \times 67 \\ & 8 \times (70 - 3) \\ & 8 \times 70 - 8 \times 3 \\ & 560 - 24 \\ & 536 \end{aligned}$$

Exercise

1. Use mental math to find each sum or product.

a) $23 + 9 + 7 + 11$

b) $39 + 18 + 11 + 22$

c) $55 + 7 + 43 + 5$

d) $5 \times 13 \times 4$