

Practice

1. Evaluate each expression.

Use the order of operations.

- | | | |
|----------------------|----------------------|------------------------|
| a) $18 + 4 \times 2$ | b) $25 - 12 \div 3$ | c) $24 + 36 \div 9$ |
| d) $12 - 8 - 4$ | e) $50 - 7 \times 6$ | f) $7 \times (2 + 9)$ |
| g) $81 \div 9 - 6$ | h) $25 \div (9 - 4)$ | i) $13 - 6 + 8$ |
| j) $(9 + 6) \div 3$ | k) $19 + 56 \div 8$ | l) $8 \times (12 - 5)$ |



2. Does your calculator follow the order of operations?

Press: $9 \square + \square 6 \square \times \square 3 \square =$

Explain how you know.

3. Bianca entered $52 \square + \square 8 \square \times \square 2 \square =$ in her calculator.

She got the answer 120.

In what order did Bianca's calculator perform the operations?

How do you know?



4. Use a calculator to evaluate each expression.

- | | |
|--------------------------------------|-----------------------------------|
| a) $332 - 294 \div 49$ | b) $209 \times 12 \div 4$ |
| c) $312 \times 426 - 212 \times 158$ | d) $2205 + 93 \div 3 - 1241$ |
| e) $156 \times 283 + 215 \times 132$ | f) $245 \times 138 \div (7 + 23)$ |
| g) $(148 + 216) \times (351 - 173)$ | h) $1258 + 341 \times 28 - 2357$ |

5. Use mental math to evaluate.

- | | |
|------------------------------|------------------------------|
| a) $20\,000 - 4000 \times 2$ | b) $6 + 125 \div 25$ |
| c) $(1000 + 6000) \times 3$ | d) $60 \times 3 \div 9$ |
| e) $5 \times (4 + 11)$ | f) $50 + 50 \div 50$ |
| g) $(50 + 50) \div 50$ | h) $9 \times 10 - (30 + 30)$ |
| i) $16 \div 2 \times 9$ | j) $200 - 200 \div 20$ |

6. Use mental math to evaluate.

- | | |
|---------------------------|---------------------------|
| a) $4 \times 7 - 2 + 1$ | b) $4 \times (7 - 2) + 1$ |
| c) $4 \times 7 - (2 - 1)$ | d) $4 \times (7 - 2 + 1)$ |
| e) $(4 \times 7 - 2) + 1$ | f) $4 \times 7 - (2 + 1)$ |

Which expressions give the greatest answer?

The least answer?



7. How many different answers can you get by inserting one pair of brackets in this expression?

$$10 + 20 - 12 \div 2 \times 3$$

Write each expression, then evaluate it.

