

TARGET To explore the order of operations using brackets.

ORDER OF OPERATIONS

1. Deal with brackets
2. Divide and multiply
3. Add and subtract

Examples

$7 \times 8 - 5 + 3$	$7 \times 8 - (5 + 3)$	$7 \times (8 - 5) + 3$
$56 - 5 + 3$	$7 \times 8 - 8$	$7 \times 3 + 3$
54	$56 - 8$	$21 + 3$
	48	24

A

Work out the brackets first.

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|----------------------|---------------------------|------------------------|
| 1 $(6 \times 3) + 2$ | 7 $30 - (5 \times 3)$ | 13 $(7 + 4) \times 9$ |
| 2 $6 \times (3 + 2)$ | 8 $(30 - 5) \times 3$ | 14 $7 + (4 \times 9)$ |
| 3 $(60 \div 10) - 5$ | 9 $24 \div (3 \times 4)$ | 15 $(50 - 20) \div 10$ |
| 4 $60 \div (10 - 5)$ | 10 $(24 \div 3) \times 4$ | 16 $50 - (20 \div 10)$ |
| 5 $(12 + 6) \div 2$ | 11 $5 \times (8 - 2)$ | 17 $(45 \div 5) + 4$ |
| 6 $12 + (6 \div 2)$ | 12 $(5 \times 8) - 2$ | 18 $45 \div (5 + 4)$ |

B

Put the brackets in the right place to make the calculation correct.

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|----------------------------|--------------------------------|--------------------------|
| 1 $3 \times 8 - 5 = 9$ | 6 $3 + 4 \times 5 = 35$ | 11 $9 + 6 \div 3 = 11$ |
| 2 $8 + 12 \div 4 = 5$ | 7 $20 \div 4 + 1 = 6$ | 12 $3 \times 7 - 3 = 18$ |
| 3 $60 \div 10 - 4 = 2$ | 8 $48 - 15 \div 3 = 11$ | 13 $8 - 4 \times 2 = 8$ |
| 4 $36 - 9 \times 2 = 18$ | 9 $7 \times 6 + 2 = 56$ | 14 $84 \div 12 - 5 = 12$ |
| 5 $48 \div 4 \times 3 = 4$ | 10 $100 \div 20 \times 2 = 10$ | 15 $6 \times 5 + 2 = 42$ |

C

Place two pairs of brackets to make each calculation correct.

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|--|--|
| 1 $11 - 3 \times 2 = 90 \div 15 + 3$ | 6 $18 + 6 \times 6 = 8 \times 20 - 16$ |
| 2 $28 + 12 \div 4 = 2 \times 9 - 4$ | 7 $14 \times 5 - 3 = 10 + 36 \div 2$ |
| 3 $5 \times 5 + 3 = 1000 \div 20 + 5$ | 8 $75 \div 3 \times 5 = 100 \div 10 - 5$ |
| 4 $64 \div 8 - 4 = 3 \times 5 + 1$ | 9 $23 - 7 \times 2 = 8 \times 6 - 2$ |
| 5 $104 - 56 \div 4 = 42 - 12 \times 3$ | 10 $36 + 36 \div 9 = 24 - 8 \times 2$ |