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Operation Order

Order of Operations

Year 6 · Maths · Order of operations · Secure

○ Start ○ Build ○ Think ○ Challenge ○ Achieve

Today

Brackets first, then × and ÷, then + and −.

Start Mission 1 · Quick calculations

Work out the answer. Do brackets first, then × and ÷, then + and −.

1. $3 + 4 \times 2$

2. $(3 + 4) \times 2$

3. $20 - 6 \div 2$

4. $8 \times 2 + 1$

5. $15 \div 3 + 2$

6. $5 \times (2 + 1)$

Build Mission 2 · Keep the order

Work out the answer.

1. $6 + 3 \times 4$

2. $(6 + 3) \times 4$

3. $18 - 4 \times 2$

4. $24 \div 4 + 5$

5. $7 \times 2 - 3 \times 2$

6. $(10 - 4) \div 2$

7. $5 + 5 \times 5$

8. $100 \div (4 + 6)$

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Think Mission 3 · Write the calculation

Write the calculation and the answer.

1. Pens come in packs of 4. You buy 3 packs and 1 extra pen. How many pens?

_____

_____

2. 20 children are in a room. 4 leave. The rest split into 2 equal groups. How many are in each group?

_____

_____

3. True or false: $2 + 3 \times 4 = 20$.

_____

_____

4. Insert brackets so that $8 + 2 \times 3 = 30$.

_____

_____

Challenge Mission 4 · Make 10

Use 2, 3 and 4 once each to make 10.

1. Write one calculation

_____

2. Write a different calculation

_____

_____

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☆ ☆ ☆

Mission complete

☐ I can keep brackets, then multiplication and division, then addition and subtraction.

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Answers for parents

Order of Operations

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Fold this page back while your child works.

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Learning objectives

- Calculate expressions that use more than one operation
- Use brackets to change the order of a calculation
- Write a calculation that matches a short problem

Mission 1 · Start

1. 3 + 4 × 2 — 11
2. (3 + 4) × 2 — 14
3. 20 − 6 ÷ 2 — 17
4. 8 × 2 + 1 — 17
5. 15 ÷ 3 + 2 — 7
6. 5 × (2 + 1) — 15

Mission 2 · Build

1. 6 + 3 × 4 — 18
2. (6 + 3) × 4 — 36
3. 18 − 4 × 2 — 10
4. 24 ÷ 4 + 5 — 11
5. 7 × 2 − 3 × 2 — 8
6. (10 − 4) ÷ 2 — 3
7. 5 + 5 × 5 — 30
8. 100 ÷ (4 + 6) — 10

Mission 3 · Think

1. Pens come in packs of 4. You buy 3 packs and 1 extra pen. How many pens? — 3 × 4 + 1 = 13
2. 20 children are in a room. 4 leave. The rest split into 2 equal groups. How many are in each group? — (20 − 4) ÷ 2 = 8
3. True or false: 2 + 3 × 4 = 20. — False. 2 + 3 × 4 = 14.
4. Insert brackets so that 8 + 2 × 3 = 30. — (8 + 2) × 3

Mission 4 · Challenge

1. 2 × 3 + 4 or 4 × 3 − 2
2. The other of those, or another correct calculation.

Teaching tip

3 + 4 × 2 is 11, not 14. The brackets in (3 + 4) × 2 are what make it 14.

Ask your child

Where do the brackets have to go to make 8 + 2 × 3 equal 30?