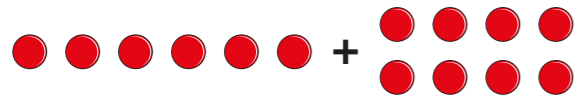


Order of operations

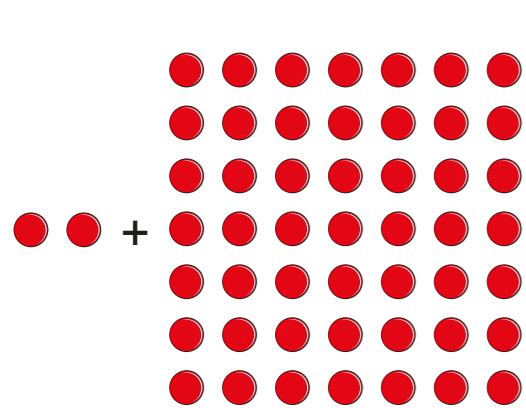
1 a) Explain how the counters illustrate $6 + 2 \times 4$

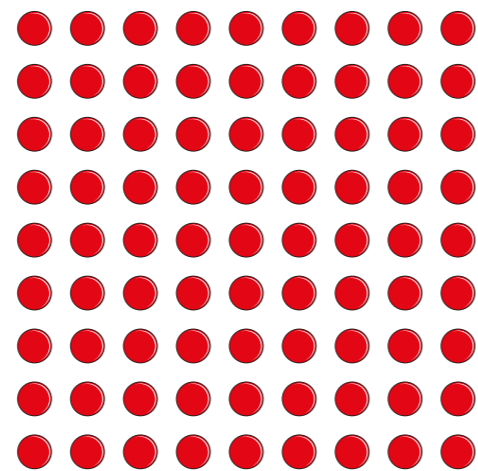


b) Work out $6 + 2 \times 4$

c) Which part of the calculation did you do first?

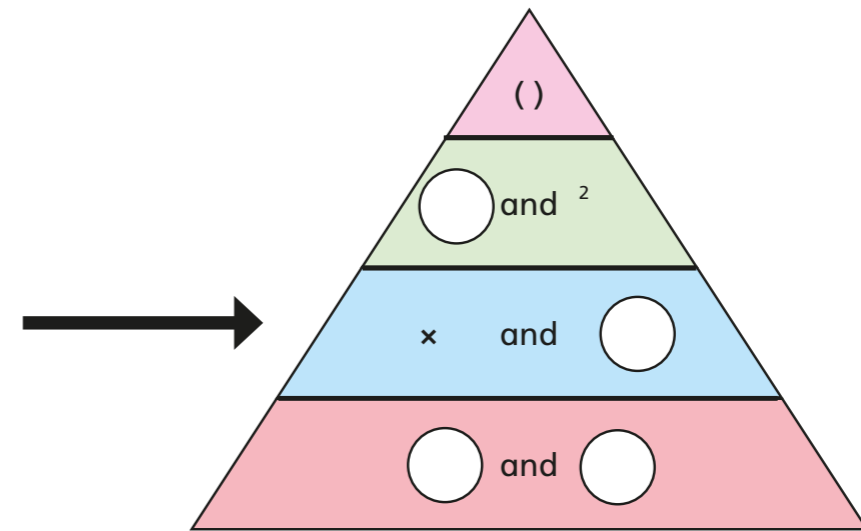
2 a) Which diagram represents $2 + 7^2$?
Tick your answer.





b) Draw a diagram to represent $2 \times (3 + 4)$

3



- a) Fill in the gaps in the diagram with operations in order of their priority.
- b) Discuss why the operations in the row indicated by the arrow have equal priority.

4

Underline the part of the calculation that you will do first.

Complete each calculation.

a) $4 + 3 \times 5 =$

d) $(4 + 3) \times 5 =$

b) $12 \div 4 + 2 =$

e) $9 \times \sqrt{16} \div 2 =$

c) $7 + 3^2 \times 2 =$

f) $36 \div 12 \div 3 =$

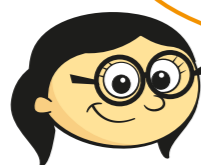
- 5 Explain the mistakes that have been made in these calculations and work out the correct answer.

a) $11 + 2 \times 3 = 39$

b) $4 \times 2 + 2 \times 3 = 30$

c) $12 \div 2^2 = 36$

- 6 Annie is working out $6 - 5 + 2 - 3$



I do the adding first: $5 + 2 = 7$.
So $6 - 7 - 3$ is equal to -4

What mistake has Annie made?

What should she have done?

- 7 Complete the calculations.

a) $4 \times 5 + 3 \times 8 =$

b) $(5 - 2) \div (10 - 7) =$

- 8 Insert brackets to make the calculations correct.

a) $4 + 7 \times 2 - 7 = 15$

c) $3 \times 25 - 13 + 4 = 40$

b) $5 + 3 \times 4 + 2 = 48$

d) $5 + 3 \times 4 + 2 = 23$

- 9 Work out the calculation.

$14 \times 3 + 3 \times 67 =$

Discuss your method with a partner. Is there a more efficient method?

- 10 Write $+$, $-$, \times or \div to complete the calculation.

$1 \bigcirc 2 \bigcirc 3 \bigcirc 4 \bigcirc 5 \bigcirc 6 \bigcirc 7 \bigcirc 8 \bigcirc 9 = 100$