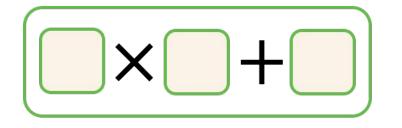
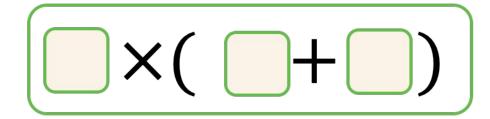
Try this

Use the numbers 2, 3, and 4 **once** to fill the calculation frames.

What different calculations can you write?





How many different answers are possible?



Connect

Function machines

$$2 \times 3 + 4$$

2 × 3 + 4 =

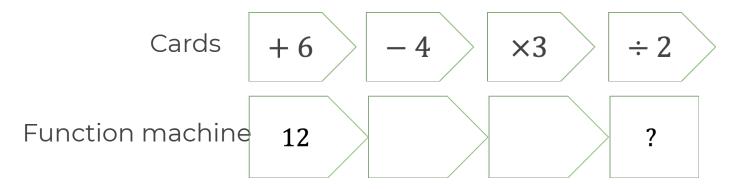
$$3 + 4 \times 2$$

(3 + 4) × 2 =

Why are brackets necessary for one calculation but not the other?

Connect

Use the cards to fill in the gaps in the function machine.



- 1) How many different machines can you make?
- 2) When do function machines give the same answers?
- 3) When do function machines give different answers?
- 4) Write each function machine as an equation.

Independent task

- **1)** 2 × 3 + 7 =
- **2)** 4 × (5 − 3) =
- **3)** 8 ÷ 4 × 2 =
- 4) 8 🛶 4 + 4 =
- 5) 8 🕂 (4 + 4) =

Add brackets to make the following calculations true

1) 2 × 3 + 5 = 16

2) 2 + 3 × 4 + 5 = 45



Explore

Consider each of the following statements and equations.

Decide for each if it is always, sometimes or never true.

Explain your answers.

$$1 + 4 \div 2 = (1 + 4) \div 2$$

$${\scriptstyle \bigtriangleup} + \blacksquare - \diamondsuit = \blacksquare - \diamondsuit + {\scriptstyle \measuredangle}$$

$$a \times (7 + 3) = 10 \times a$$

$$5 \div a = a \div (8 - 3)$$

