

The order you do a calculation matters.

Your calculator uses the order of 'BIDMAS' to complete a calculation.

This means that it doesn't always do the calculation in the order it's written, instead it does it in the order:

- **Division and multiplication** first,
- **Addition and subtraction** afterwards
- **Example:** $1 + 2 \times 3 = 7$ (check on your calculator)

In each of the calculations below the symbols + - × or ÷ are missing.

Use your calculator to find which symbol goes in each box to give the correct answer.

Each question uses 3 different symbols. Write them in the boxes.

a. $100 \square 10 \square 5 \square 2 = 125$

f. $100 \square 10 \square 5 \square 2 = 20$

b. $100 \square 10 \square 5 \square 2 = 202$

g. $100 \square 10 \square 5 \square 2 = 75$

c. $100 \square 10 \square 5 \square 2 = 148$

h. $100 \square 10 \square 5 \square 2 = 997$

d. $100 \square 10 \square 5 \square 2 = 0$

i. $100 \square 10 \square 5 \square 2 = 48$

e. $100 \square 10 \square 5 \square 2 = 13$

j. $100 \square 10 \square 5 \square 2 = 96$

Extension work

1. Make FOUR more calculations like the ones above, and find the answer to each one:

a. $100 \square 10 \square 5 \square 2 = \square$

d. $100 \square 10 \square 5 \square 2 = \square$

b. $100 \square 10 \square 5 \square 2 = \square$

e. $100 \square 10 \square 5 \square 2 = \square$

2. There are FOUR different calculations which give the answer 100. Can you find them all?

a. $100 \square 10 \square 5 \square 2 = 100$

d. $100 \square 10 \square 5 \square 2 = 100$

b. $100 \square 10 \square 5 \square 2 = 100$

e. $100 \square 10 \square 5 \square 2 = 100$

3. How many different calculations are there in total of the form using 3 different symbols? (out of the symbols + - × or ÷)

a. $100 \square 10 \square 5 \square 2 = \square$

Answers

Each question uses 3 different symbols. Write them in the boxes.

a. $100 \boxed{+} 10 \boxed{\times} 5 \boxed{\div} 2 = 125$

f. $100 \boxed{\div} 10 \boxed{+} 5 \boxed{\times} 2 = 20$

b. $100 \boxed{\times} 10 \boxed{\div} 5 \boxed{+} 2 = 202$

g. $100 \boxed{-} 10 \boxed{\times} 5 \boxed{\div} 2 = 75$

c. $100 \boxed{+} 10 \boxed{\times} 5 \boxed{-} 2 = 148$

h. $100 \boxed{\times} 10 \boxed{-} 5 \boxed{+} 2 = 997$

d. $100 \boxed{\div} 10 \boxed{-} 5 \boxed{\times} 2 = 0$

i. $100 \boxed{\div} 10 \boxed{\times} 5 \boxed{-} 2 = 48$

e. $100 \boxed{\div} 10 \boxed{+} 5 \boxed{-} 2 = 13$

j. $100 \boxed{-} 10 \boxed{\div} 5 \boxed{\times} 2 = 96$

Extension work

1. Make FOUR more calculations like the ones above, and find the answer to each one:

a. $100 \boxed{+} 10 \boxed{\div} 5 \boxed{\times} 2 = 104$

f. $100 \boxed{+} 10 \boxed{-} 5 \boxed{\div} 2 = 107.5$
($215/2$)

b. $100 \boxed{\times} 10 \boxed{+} 5 \boxed{\div} 2 = 1002.5$
($2005/2$)

g. $100 \boxed{\div} 10 \boxed{-} 5 \boxed{+} 2 = 7$

c. $100 \boxed{\div} 10 \boxed{\times} 5 \boxed{+} 2 = 52$

h. $100 \boxed{\times} 10 \boxed{\div} 5 \boxed{-} 2 = 198$

d. $100 \boxed{\times} 10 \boxed{+} 5 \boxed{-} 2 = 1003$

i. $100 \boxed{\times} 10 \boxed{-} 5 \boxed{\div} 2 = 997.5$
($1995/2$)

e. $100 \boxed{-} 10 \boxed{\times} 5 \boxed{+} 2 = 52$

j. $100 \boxed{-} 10 \boxed{+} 5 \boxed{\div} 2 = 92.5$
($185/2$)

2. There are FOUR different calculations which give the answer 100. Can you find them all?

a. $100 \boxed{+} 10 \boxed{-} 5 \boxed{\times} 2 = 100$

f. $100 \boxed{+} 10 \boxed{\div} 5 \boxed{-} 2 = 100$

b. $100 \boxed{-} 10 \boxed{+} 5 \boxed{\times} 2 = 100$

g. $100 \boxed{-} 10 \boxed{\div} 5 \boxed{+} 2 = 100$

3. How many different calculations are there in total of the form using 3 different symbols? (out of the symbols + - × or ÷)

24 calculations, $4 \times 3 \times 2 = 4P3$ listed in Q1) and Q2) above