

LO: To solve problems involving X by 10, 100 and 1000

Solve these questions then chose at least one challenge reasoning problem to try to solve.

1) Complete the calculations

a) $45 \times 10 = \boxed{}$

e) $10 \times \boxed{} = 140$

b) $36 \times 10 = \boxed{}$

f) $\boxed{} = 40 \times 10$

c) $\boxed{} = 10 \times 78$

g) $32 \times 10 = 10 \times \boxed{}$

d) $31 \times \boxed{} = 310$

h) $670 = 2 \times 5 \times \boxed{}$

2) Write $<$, $>$ or $=$ to compare the statements:

a) 45×100 \bigcirc 45×10

b) 36×100 \bigcirc 100×36

c) 100×27 \bigcirc 26×100

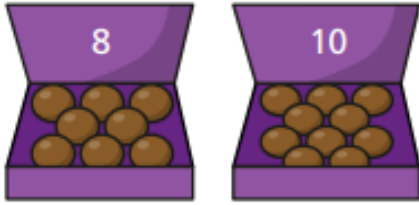
d) 31×100 \bigcirc $31 \times 10 \times 10$

e) 30×10 \bigcirc 3×100

Challenge

Problem 1

Chocolates come in boxes of 8 and 10
Rosie needs to buy 80 chocolates.



- What boxes could Rosie buy?
- What is the fewest number of boxes Rosie could buy?

Problem 2

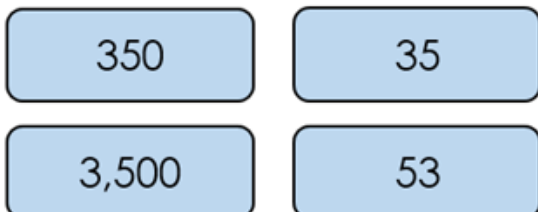
Annie has multiplied a whole number by 10.
Her answer is between 440 and 540

- What could her original calculation be?
- How many possibilities can you find?

Problem 3

Four children are in a race.

The numbers on their vests are:



Use the clues to match each vest number to a child.

- Jack's number is ten times smaller than Mo's.
- Alex's number is not ten times smaller than Jack's or Dora's or Mo's.
- Dora's number is ten times smaller than Jack's

Remember you only have to try to solve one of these challenge problems (unless you want to solve all three!) Don't worry if you get stuck on them - just have a go but don't panic - we will go over the reasoning in our next lesson.