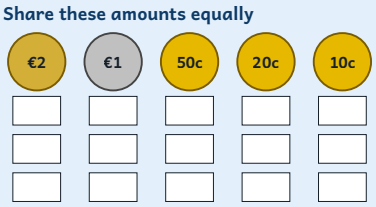
Dividing decimals in context

When dividing a decimal by a whole number, **keep the decimal points lined up** and divide as usual.



→ 7.5 ÷ 5 = **1.5**.

→ Sharing €9.60 between 4 → **€2.40** each.

SHARE €9.60 EQUALLY BETWEEN 4

$$\begin{array}{r} 2.40 \\ 4\overline{)\,9^{1}.60} \end{array}$$

1. Keep the decimal point lined up and divide as usual.
2. 9 ÷ 4 = 2 r 1; 16 ÷ 4 = 4; 0 ÷ 4 = 0 → **€2.40** each.

WARM-UP

a. 128 ÷ 4 = ____ b. 441 ÷ 9 = ____ c. 185 ÷ 5 = ____ d. 30 ÷ 2 = ____

PRACTICE

1. Master Daithí is stacking worksheets in the photocopier room. Maths worksheets come in bundles of **8** and English worksheets come in bundles of **18**. What is the smallest number of worksheets he needs of each so that the two stacks are the same height?

   What is the lowest common multiple (LCM) of 8 and 18?

2. Niamh is sorting the school tour fund and notices that this week's total comes to **48 euro** coins. She wonders if **48** is a prime number. Is **48** a prime number? Answer yes or no, and give a reason.

CHALLENGE

1. Four cousins club together to buy their grandad a birthday present that costs **€2747.60**. They split the cost equally between them. How much does each cousin pay?

   2747.6 ÷ 4 = ?

2. The corner shop near the school sold **4917** lottery tickets over **5** weeks for the local GAA club fundraiser. The same number of tickets sold each week. How many tickets did the shop sell per week?