Arithmetic

1. 7 x 6 x 5	**2.** $\frac{2}{5}$ of 30	**3.** 4.7 + 2.9	**4.** 3,482 x 7

Practice: Decimals as Fractions

5. Recap: Explain how to convert decimal to a fraction (for example 0.3). 💬

6. Convert these to fractions.

a. 0.2   b. 0.8   c. 0.5

7. Convert these to fractions.

a. 0.07   b. 0.03   c. 0.09

8. Convert these to fractions.

a. 0.96   b. 0.47   c. 0.30

9. Convert these to fractions over 100.

a. 0.4   b. 0.9   c. 0.7

10. Explain what the 4 means in this decimal. 💬
4.02
What would the 4 mean if this was converted to a fraction?

11. Write the expanded form of this decimal as a fraction.

4.25 = 4 + 0.2 + 0.05

12. Expand this decimal and write it as a fraction.

6.07

13. Ruby needs to convert the decimal 1.03 to a fraction. She writes $\frac{103}{10}$. 🔍

Is Ruby correct? Explain.

Challenge

14. Complete the number sentence in as many ways as possible.

$$\boxed{} . \boxed{} \boxed{} = \boxed{} + \frac{\boxed{}}{10} + \frac{\boxed{}}{100}$$

💬 **You might want to talk to an adult**

🔍 **Spot the mistake**

Answers

Q no.	Question	Answer
1	7 x 6 x 5	210
2	$\frac{2}{5}$ of 30	12
3	4.7 + 2.9	7.6
4	3,482 x 7	24,374
5	Explain how to convert decimal to a fraction (for example 0.3).	If the decimal has one decimal place, the digit in the tenths column becomes the numerator with the denominator of ten. If the decimal has two decimal places, the digits in the tenths and hundredths column become the numerator with one hundred as a denominator.
6	Convert these to fractions.	a. $\frac{2}{10}$, b. $\frac{8}{10}$, c. $\frac{5}{10}$
7	Convert these to fractions.	a. $\frac{7}{100}$, b. $\frac{3}{100}$, c. $\frac{9}{100}$
8	Convert these to fractions.	a. $\frac{96}{100}$, b. $\frac{47}{100}$, c. $\frac{30}{100}$ or $\frac{3}{10}$
9	Convert these to fractions over 100.	a. $\frac{40}{100}$, b. $\frac{90}{100}$, c. $\frac{70}{100}$
10	Explain what the 4 means in this decimal. 4.02 What would the 4 mean if this was converted to a fraction?	4 means 4 ones. As a fraction, the 4 would mean 4 wholes.
11	Write the expanded form of this decimal as a fraction.	$4 + \frac{2}{10} + \frac{5}{100}$
12	Expand this decimal and write it as a fraction.	$6 + 0.07 = 6 + \frac{7}{100}$
13	Ruby needs to convert the decimal 1.03 to a fraction. She writes $\frac{103}{10}$. Is Ruby correct? Explain.	Ruby is incorrect. She has not understood that the digit 3 is in the hundredths column and therefore should have a denominator of 100. The 1 represents one whole. While it could be included in the fraction as an improper fraction, pupils should be encouraged to write as mixed number fractions.
14	Complete the number sentence in as many ways as possible.	Accept answers where the decimal is equivalent to the partitioned fraction. Example answers: $1.43 = 1 + \frac{4}{10} + \frac{3}{100}$ $9.72 = 9 + \frac{7}{10} + \frac{2}{100}$