

Independent Recap

Fractions, Decimals and
Percentages

Year 6

Arithmetic

1. $87,649 + 13,555$

2. $897 \div 39$

3. $\frac{5}{8} - \frac{1}{3}$

4. 61% of 410

Practice: Equivalent Fractions, Decimals and Percentages

5. Recap: Explain the connection between fractions, decimals and percentages.



6. Convert these fractions to decimals:

a. $\frac{4}{10}$

b. $\frac{4}{5}$

c. $\frac{3}{4}$

7. Convert these decimals to percentages:

a. 0.7

b. 0.63

c. 0.08

8. Convert these decimals to fractions and simplify:

a. 0.65

b. 0.8

c. 0.04

9. Convert these percentages to decimals:

a. 70%

b. 46%

c. 3%

10. Convince me that 0.6 is larger than $\frac{6}{100}$ 

11. Convert these percentages to fractions and simplify:

a. 28%

b. 6%

c. 75%

13. Adelaide says 0.1 is the same as $\frac{1}{100}$ and 1%.

Is Adelaide correct? Explain.

12. Complete the table.

Decimal	Fraction	Percentage
0.45		
	$\frac{7}{25}$	
		64%

Challenge

14. How many ways can you complete this number sentence?

$$\boxed{} \% > \frac{\boxed{}}{\boxed{}} < 0.\boxed{}$$

You might want
to talk to an adult

Spot the mistake

Answers

Q no.	Question	Answer
1	$87,649 + 13,555$	101,204
2	$897 \div 39$	23
3	$\frac{5}{8} - \frac{1}{3}$	$\frac{7}{24}$
4	61% of 410	250.1
5	Explain the connection between fractions, decimals and percentages.	Fractions, decimals and percentages are different ways to show the same number. For example $90\% = 0.9 = \frac{9}{10}$
6	Convert these fractions to decimals	a. 0.4, b. 0.8, c. 0.75
7	Convert these decimals to percentages	a. 70%, b. 63%, c. 8%
8	Convert these decimals to fractions and simplify	a. $\frac{13}{20}$, b. $\frac{4}{5}$, c. $\frac{1}{25}$
9	Convert these percentages to decimals	a. 0.7, b. 0.46, c. 0.03
10	Convince me that 0.6 is larger than $\frac{6}{100}$.	$\frac{6}{100}$ is the same as 0.06. 0.06 is smaller than 0.6. Alternatively, 0.6 is equivalent to $\frac{60}{100}$, which is larger than $\frac{6}{100}$.
11	Convert these percentages to fractions and simplify	a. $\frac{7}{25}$, b. $\frac{3}{50}$, c. $\frac{3}{4}$
12	Complete the table.	1st row: $\frac{45}{100}$ or $\frac{9}{20}$ and 45% 2nd row: 0.28 and 28% 3rd row: 0.64 and $\frac{64}{100}$ or $\frac{16}{25}$
13	Adelaide says 0.1 is the same as $\frac{1}{100}$ and 1%. Is Adelaide correct? Explain.	Adelaide is incorrect. She has confused the place value of decimals numbers. Instead of identifying 0.1 is the same as one tenth or $\frac{1}{10}$, she has identified it as one hundredth or $\frac{1}{100}$. The correct answers should be $0.1 = \frac{1}{10} = 10\%$.
14	How many ways can you complete this number sentence?	Accept any answers where the fraction has the smallest value. For example $87\% > \frac{1}{5} < 0.6$ $21\% > \frac{1}{100} < 1$ $50\% > \frac{2}{50} < 0.38$