

Homework/Extension

Step 8: Fractions to Decimals 1

National Curriculum Objectives:

Mathematics Year 6: (6F9a) [Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places](#)

Mathematics Year 6: (6F11) [Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Complete diagrams to show decimals as fractions where the denominator is 10 or 100.

Expected Complete diagrams to show decimals as fractions including common fractions and fractions where the denominator is a multiple or factor of 10.

Greater Depth Complete diagrams to show decimals as fractions using knowledge of common fractions for example $1/4 = 0.25$ therefore $1/8 = 0.125$.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify fractions which do not equal the target decimal number where the denominator is 10 or 100.

Expected Identify fractions which do not equal the target decimal number including common fractions and fractions where the denominator is a multiple or factor of 10.

Greater Depth Identify fractions which do not equal the target decimal number using knowledge of common fractions.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Identify letters to reveal the missing word by converting fractions to decimals where the denominator is 100.

Expected Identify and unscramble letters to reveal the missing word by converting fractions to decimals including common fractions and fractions where the denominator is a multiple or factor of 10.

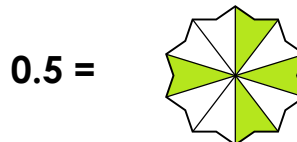
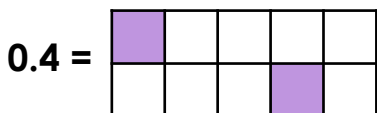
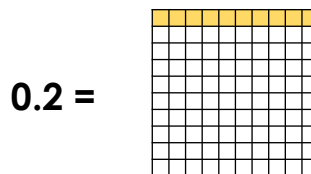
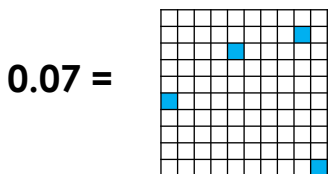
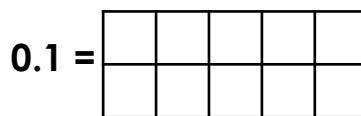
Greater Depth Identify and unscramble letters to reveal the missing word by converting fractions to decimals using knowledge of common fractions.

More [Year 6 Decimals](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Fractions to Decimals 1

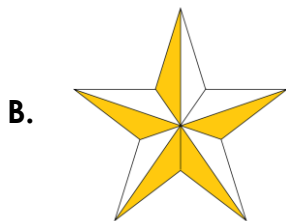
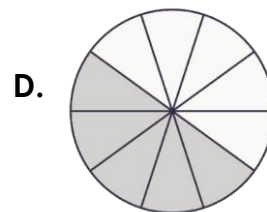
1. Dahlia has started to colour in some fractions to show their decimal equivalent. Complete them for her.



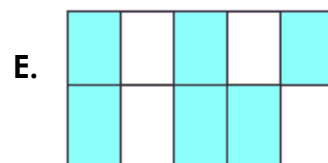
VF
HW/Ext

2. Which fraction is not equivalent to the target decimal?

A. $\frac{50}{100}$



C. $\frac{5}{10}$



VF
HW/Ext

3. If $0.01 = a$, $0.02 = b$... $0.25 = y$, $0.26 = z$, work out which word is written below by converting fractions to decimals.

$\frac{19}{100}$

$\frac{9}{100}$

$\frac{13}{100}$

$\frac{16}{100}$

$\frac{12}{100}$

$\frac{9}{100}$

$\frac{6}{100}$

$\frac{25}{100}$

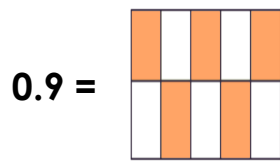
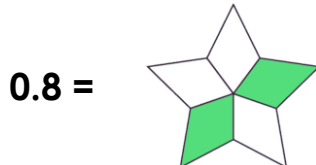
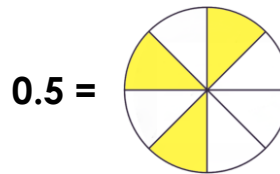
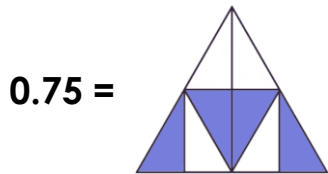
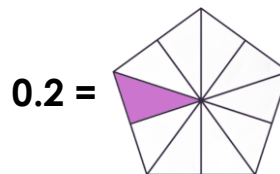
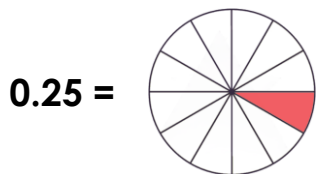




RPS
HW/Ext

Fractions to Decimals 1

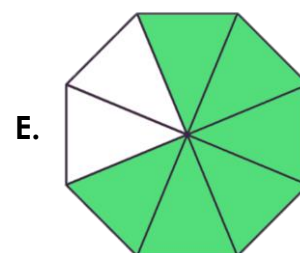
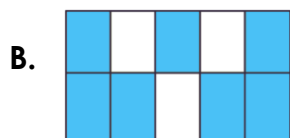
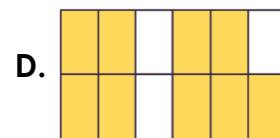
4. Ali has started to colour in some fractions to show their decimal equivalent. Complete them for her.



VF
HW/Ext

5. Which fraction is not equivalent to the target decimal?

A. $\frac{150}{200}$



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



VF
HW/Ext

6. If $0.01 = a$, $0.02 = b$... $0.25 = y$, $0.26 = z$, work out which word is written below by converting fractions to decimals.

$\frac{30}{200}$ $\frac{14}{100}$ $\frac{15}{100}$ $\frac{2}{100}$ $\frac{4}{100}$ $\frac{18}{200}$ $\frac{7}{50}$ $\frac{54}{300}$ $\frac{10}{200}$ $\frac{26}{200}$ $\frac{2}{200}$



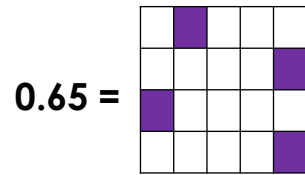
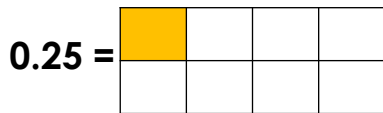
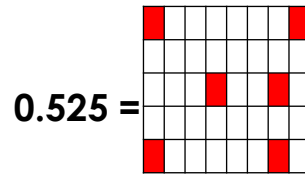
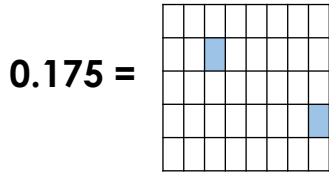
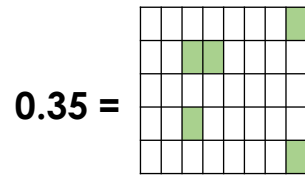
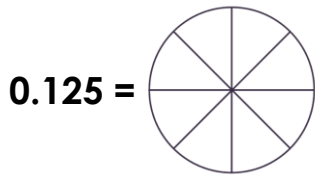
Unscramble the letters to make a word related to fractions or decimals.



RPS
HW/Ext

Fractions to Decimals 1

7. Bobby has started to colour in some fractions to show their decimal equivalent. Complete them for him.

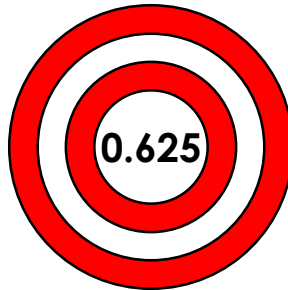
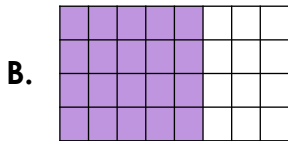


VF
HW/Ext

8. Which fraction is not equivalent to the target decimal?

A. $\frac{50}{80}$

D. $\frac{31}{50}$



C. $\frac{10}{16}$



VF
HW/Ext

9. If $0.01 = a$, $0.02 = b$... $0.25 = y$, $0.26 = z$, work out which word is written below by converting fractions to decimals.

$\frac{34}{200}$

$\frac{27}{300}$

$\frac{7}{140}$

$\frac{11}{50}$

$\frac{3}{25}$

$\frac{9}{180}$

$\frac{126}{900}$

$\frac{4}{400}$

$\frac{84}{400}$

$\frac{70}{350}$



Unscramble the letters to make a word related to fractions or decimals.



RPS
HW/Ext

Homework/Extension

Fractions to Decimals 1

Developing

1. $0.3 = \frac{3}{10}$; $0.07 = \frac{7}{100}$; $0.4 = \frac{4}{10}$; $0.1 = \frac{1}{10}$; $0.2 = \frac{20}{100}$; $0.5 = \frac{5}{10}$
2. **E**
3. **S I M P L I F Y = Simplify**

Expected

4. $0.25 = \frac{3}{12}$; $0.75 = \frac{6}{8}$; $0.8 = \frac{4}{5}$; $0.2 = \frac{2}{10}$; $0.5 = \frac{4}{8}$; $0.9 = \frac{9}{10}$
5. **B**
6. **O N O T D I N R E M A = Denominator**

Greater Depth

7. $0.125 = \frac{1}{8}$; $0.175 = \frac{7}{40}$; $0.25 = \frac{2}{8}$; $0.35 = \frac{14}{40}$; $0.525 = \frac{21}{40}$; $0.65 = \frac{13}{20}$
8. **D**
9. **Q I E V L E N A U T = Equivalent**