



- 1) Give the equivalent for each decimal or fraction that is shown or represented in the table. For each, show the method you used to work out the equivalent.

Fraction	Method Used	Decimal
$\frac{13}{20}$	Finding an equivalent fraction where the denominator is 10 or 100 makes it easier to convert from a fraction to a decimal. $\frac{13}{20} \times \frac{5}{5} = \frac{65}{100} =$	
$\frac{3}{20}$		0.15
$\frac{4}{25}$		
$\frac{3}{5}$		
$\frac{3}{4}$		
$\frac{\quad}{50}$		

- 2) Using your answers to the questions above, give:

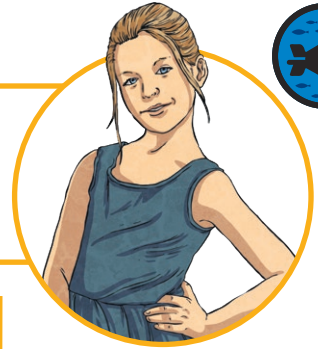
- the decimal which is closest to  $\frac{1}{4}$
- the decimals which are equal to and between  $\frac{3}{5}$  and  $\frac{4}{5}$
- the decimal which is closest to  $\frac{1}{8}$
- two decimals which add together to make  $\frac{3}{4}$

- 1) Monika is working out the equivalent decimals to  $\frac{9}{20}$  and to  $\frac{24}{40}$ .



$$\frac{9}{20} \times \frac{5}{5} = \frac{45}{100} \text{ or } 0.45$$

I can work out the equivalent decimal to  $\frac{9}{20}$  by multiplying the denominator and the numerator by 5. This will give me a fraction with a denominator of 100.



I have tried to use the same method for working out the equivalent decimal to  $\frac{24}{40}$  but it doesn't work as the denominator won't make 100 when it is multiplied.

Explain to Monika a strategy that would help her work out the equivalent decimal to  $\frac{24}{40}$ .

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- 2) Are these statements true or false? Explain your answers using the equivalence between fractions and decimals to help.

a) 0.8 is equivalent to  $\frac{24}{40}$

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b)  $\frac{100}{250} = 0.5$

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c)  $\frac{6}{8} < 0.85 > \frac{16}{20}$

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1) Give either the decimal or simplified fraction that will make these number statements true.

$$\boxed{\phantom{000}} + \frac{4}{20} + 0.05 = 1$$

$$\frac{3}{24} + \frac{300}{500} + \boxed{\phantom{000}} = 1$$

2) Use the fraction cards and decimals of your choice to complete the statements below in three different ways. Try to use all the different fraction cards.

$\frac{?}{20}$	$\frac{?}{25}$	$\frac{?}{50}$	$\frac{?}{200}$	$\frac{?}{500}$	$\frac{?}{8}$	$\frac{?}{5}$	$\frac{?}{3}$
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a)  $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} = 1$

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} = 1$

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} = 1$

b)  $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} =$  an answer between  $\frac{2}{5}$  and  $\frac{4}{5}$

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} =$  an answer between  $\frac{2}{5}$  and  $\frac{4}{5}$

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} =$  an answer between  $\frac{2}{5}$  and  $\frac{4}{5}$

c)  $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} =$  an answer between  $\frac{3}{4}$  and  $\frac{7}{8}$

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} =$  an answer between  $\frac{3}{4}$  and  $\frac{7}{8}$

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 0.\underline{\hspace{1cm}}\underline{\hspace{1cm}}\underline{\hspace{1cm}} =$  an answer between  $\frac{3}{4}$  and  $\frac{7}{8}$