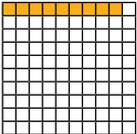
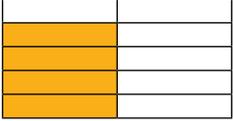




1) Complete the table with the correct equivalences between the fractions and decimals that are shown.

Decimal	Fraction (With a Denominator of 10, 100 or 1000)	Simplified Fraction (If the Fraction Can Be Simplified)
0.25	$\frac{25}{100}$	$\frac{1}{4}$
	$\frac{\square}{\square}$	$\frac{\square}{\square}$
	$\frac{\square}{\square}$	
	$\frac{\square}{\square}$	
		$\frac{\square}{\square}$
	$\frac{\square}{\square}$	

2) A run is taking place at the local park to raise money for charity. Three friends decide to split the running between them. Zach runs 0.1 of the distance around the park while Jason runs 0.4 of the distance and Sadie runs 0.35 of the distance.

a) What fraction of the run did each friend complete? Give each answer in its simplest form.

b) What fraction is left to run?

3) Insert the missing digits so that these statements show the correct fraction to decimal equivalents.

$\frac{30}{\square} = \frac{\square}{10} = 0.3$	$\frac{\square}{100} = \frac{1}{4} = 0.\square$	$\frac{80}{100} = \frac{\square}{5} = 0.\square$
$\frac{5}{10} = \frac{1}{\square} = 0.\square$	$\frac{\square}{100} = \frac{3}{\square} = 0.75$	$\frac{4}{\square} = \frac{\square}{5} = 0.4$



1) True or False? Explain your answers using the equivalence between decimals and fractions.

a

$$0.1 = \frac{1}{100}$$

b

$$\frac{50}{10} = 0.5$$

c

$$0.33 = \frac{3}{10}$$

2) Felix says,



"After I had converted 0.5 and 0.1 to fractions, I used the size of the denominators to help me order these fractions and decimals from smallest to greatest."

$$0.5, \frac{2}{5}, \frac{1}{8}, 0.1, \frac{23}{100}, \frac{55}{1000}$$

Smallest → Greatest

a) Why won't Felix's method work?

b) By changing all of the fractions to decimals, show Felix the correct order of the fractions and decimals.



1) The three shapes each represent a different single-digit whole number.
Read the statements about the numbers to help you work out their value:

- A square is worth one less than a triangle.
- All three shapes have a value greater than 3.
- Two of the shapes represent odd numbers.

$$0. \square \triangle \text{pentagon} = \frac{\triangle}{\square}$$

$$\square = \underline{\hspace{2cm}} \quad \triangle = \underline{\hspace{2cm}} \quad \text{pentagon} = \underline{\hspace{2cm}}$$

2) a) Using the digits given below, complete this number statement. You may use a digit more than once.

$$\boxed{0} \quad \boxed{5} \quad \boxed{2} \quad \boxed{8} \quad \boxed{1} \quad \boxed{7}$$

$$\boxed{0} \quad \boxed{.} \quad \boxed{1} \quad \boxed{} \quad \boxed{} \quad \boxed{=} \quad \begin{array}{c} \boxed{} \\ \boxed{} \end{array}$$

b) Using the same digits, complete another four number statements. Remember that each box may only have one digit written in it.

$$\boxed{0} \quad \boxed{.} \quad \boxed{} \quad \boxed{} \quad \boxed{} \quad \boxed{=} \quad \begin{array}{c} \boxed{} \\ \boxed{} \end{array}$$

$$\boxed{0} \quad \boxed{.} \quad \boxed{} \quad \boxed{} \quad \boxed{} \quad \boxed{=} \quad \begin{array}{c} \boxed{} \\ \boxed{} \end{array}$$

$$\boxed{0} \quad \boxed{.} \quad \boxed{} \quad \boxed{} \quad \boxed{} \quad \boxed{=} \quad \begin{array}{c} \boxed{} \\ \boxed{} \end{array}$$

$$\boxed{0} \quad \boxed{.} \quad \boxed{} \quad \boxed{} \quad \boxed{} \quad \boxed{=} \quad \begin{array}{c} \boxed{} \\ \boxed{} \end{array}$$